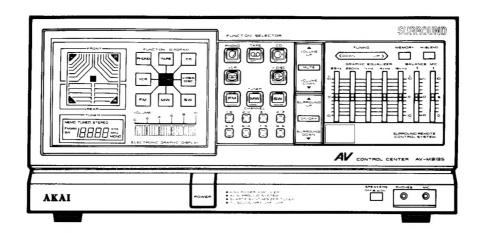
AKAI SERVICE MANUAL



AV CONTROL CENTER

MODEL AV-M313L/S

SPECIFICATIONS

Amplifier section	AM	MW	LW	sw
Power output	Frequency Range	. 531 kHz to	144 kHz to	4.6 N Hz to
DIN 46 W + 46 W		1602 kHz (9k)	351 kHz	9.8 MHz
French Norm 45 W + 45 W	į.	530 kHz to		
Frequency Response 5 Hz to 80 kHz ± 3dB		1600 kHz (10k)		
Equalizer $\pm 8 \text{ dB}$ (63 Hz, 250 Hz, 1 kHz, 4 kHz, 16kHz)	Usable Sensitivity	$300 \mu V/m$	$1000 \mu\text{V/m}$	300 ¿ V /m
Input Impedance	Selectivity	. 20 dB	25 dB	35 dl
(Phono/Aux/Tape /VCR/V. Disc/Mic)	Image Rejection Ratio	. 45 dB	35 dB	25 dl
Input Sensitivity 150 mV	IF Rejection Ratio	35 dB	35 dB	30 d)
(Phono/Aux/Tape/VCR/V. Disc)	S/N Ratio	. 35 dB	35 dB	35 d)
0.7 mV Mic	Power Requirements	. 120V, 60 Hz for	USA & Canad	ia
		220V, 50 Hz for	Europe, excep	t UK
S/N Ratio (IHF-A)		240V, 50 Hz for	UK & Austral	lia
Phono/Aux/Tape/		110V/120V/240	OV, 50 Hz/60 F	Iz convertible
VCR/V. Disc 80 dB		for other countr	ies	
Mic 63 dB	Dimensions	350 (W) × 160 (I	H) × 325 (D) m i	m
Speaker 8 to 16 ohms Surround and Main		$13.7 (W) \times 6.3 (I)$	$H) \times 12.8$ inche	s
	Weight	7.3 kg (16.1 lbs)		
Tuner section				
FM	RC-M313 Remote Control	l		
Frequency Range 87.5 to 108 MHz	System	Infrared PCM		
Usable Sen sitivity 12.7 dBf (1.2mV/75 ohms)	Carrying Frequency	$38 \text{ kHz} \pm 0.2 \text{ k}$	Hz	
S/N ratio Mono/Stereo 65 dB Mono/60 dB Stereo	Max. Operation distance	up to 8m		
Selectivity	Directivity	± 30		
Image Rejection Ratio 50 dB	Batteries	21.5 V (R6, AA,	, UM-3)	
IF Rejection Ratio 80 dB				
Capture Ratio 2.0 dB				
Stereo Separation 40 dB				

^{*} For improvement purposes, specifications and design are subject to change without notice.

★SAFETY INSTRUCTIONS

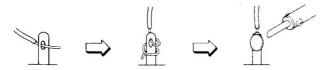
PRECAUTIONS DURING SERVICING

- 1. Parts identified by the △ symbol parts are critical for safety. Replace only with parts number specified.
- 2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.

These must also be replaced only with specified replacements.

Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.

- 3. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- 4. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers (Insulating Barriers)
 - 4) Insulation sheets for transistors
 - 5) Plastic screws for fixing microswitch (especially in turntable)
- 5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).

- 7. Check that replaced wires do not contact sharp edged or pointed parts.
- 8. Also check areas surrounding repaired locatoins.
- 9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 M ohms. but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for \boxed{C} or \boxed{A} , specified insulation resistance should be headphone jacks line-in-out jacks etc. more than 2.2 M ohms (ground terminals, microphone jacks).

PRECAUTION FOR THE LITHIUM BATTERY

The LITHIUM BATTERY employed for memory Back up has a explosive probability when the BATTERY itself is excessive heated.

IN CASE OF REPLACING: RESOLDER and SOLDER AS RECOMMENDED WAY.







(RECOMMENDED WAY)

★INFORMATION

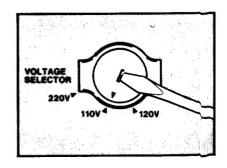
SYMBOLS FOR PRIMARY DESTINATION

Alphabet indicates the destination of the units as listed below.

Symbols	Principal Destinations	
A	USA	
В	UK	
C	Canada	
E	Europe (except UK)	
J	Japan	
S	Australia	
V	W. Germany only	
U	Universal Area	
Y*	Custom version	

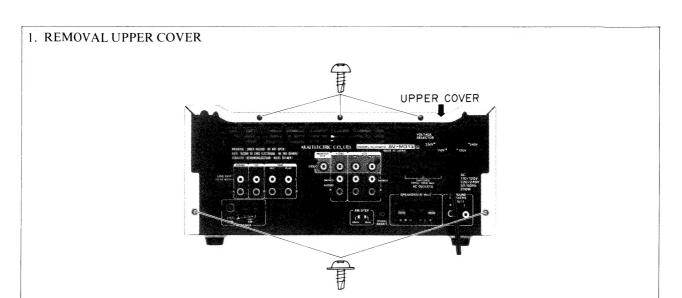
VOLTAGE CONVERSION (U Model only)

Before connecting the power cord. SET the VOLTAGE SELECTOR located on the rear panel with a screwdriver so that the correct voltage is indicated.

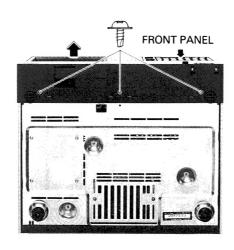


I. DISMANTLING OF UNIT

In case of trouble, etc, necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.



2. REMOVAL FRONT PANEL





Fenêtre de réception de la télécommande

FUNCTION SELECTORS

VOLUME UP (▲)/DOWN (▼), MUTE ON/OFF Control

Commandes de fréquence de l'égaliseur graphique (GRAPHIC EQUALIZER)

Pour régler finement les niveaux de fréquence dans une limite de gamme située entre 63 Hz et 16 kHz lors d'opérations de reproduction et d'enregistrement.

III. PRINCIPAL PARTS LOCATION

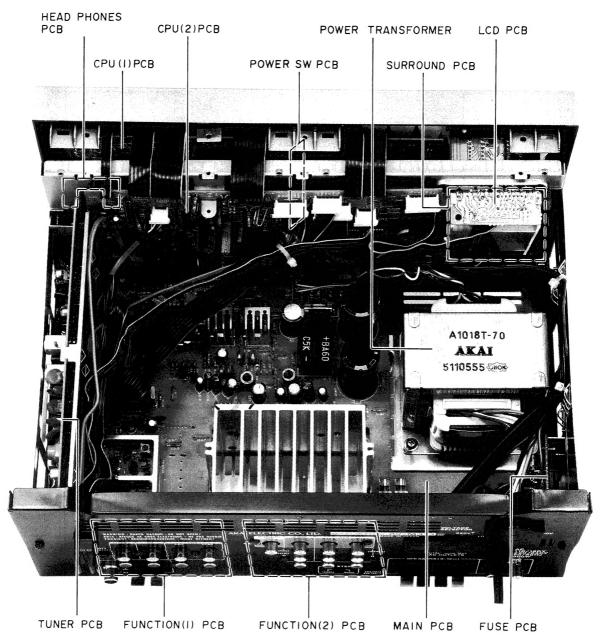


Fig. 3-1 Top View

IV. ELECTRICAL ADJUSTMENT

4-1. INSTRUMENT CONNECTIONS AND ADJUSTMENT POINTS FOR TUNER ADJUSTMENT

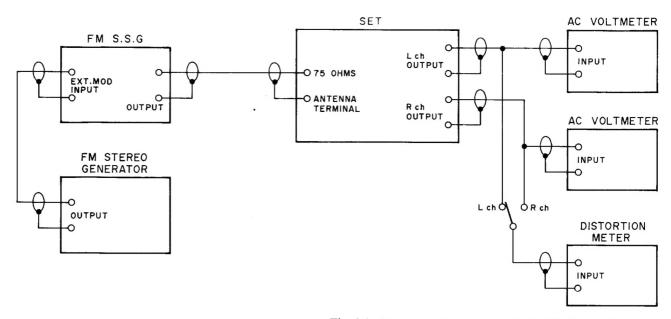


Fig. 4-1. Instrument Connections for FM Section Adjustment

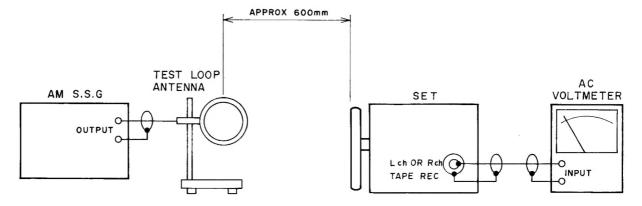
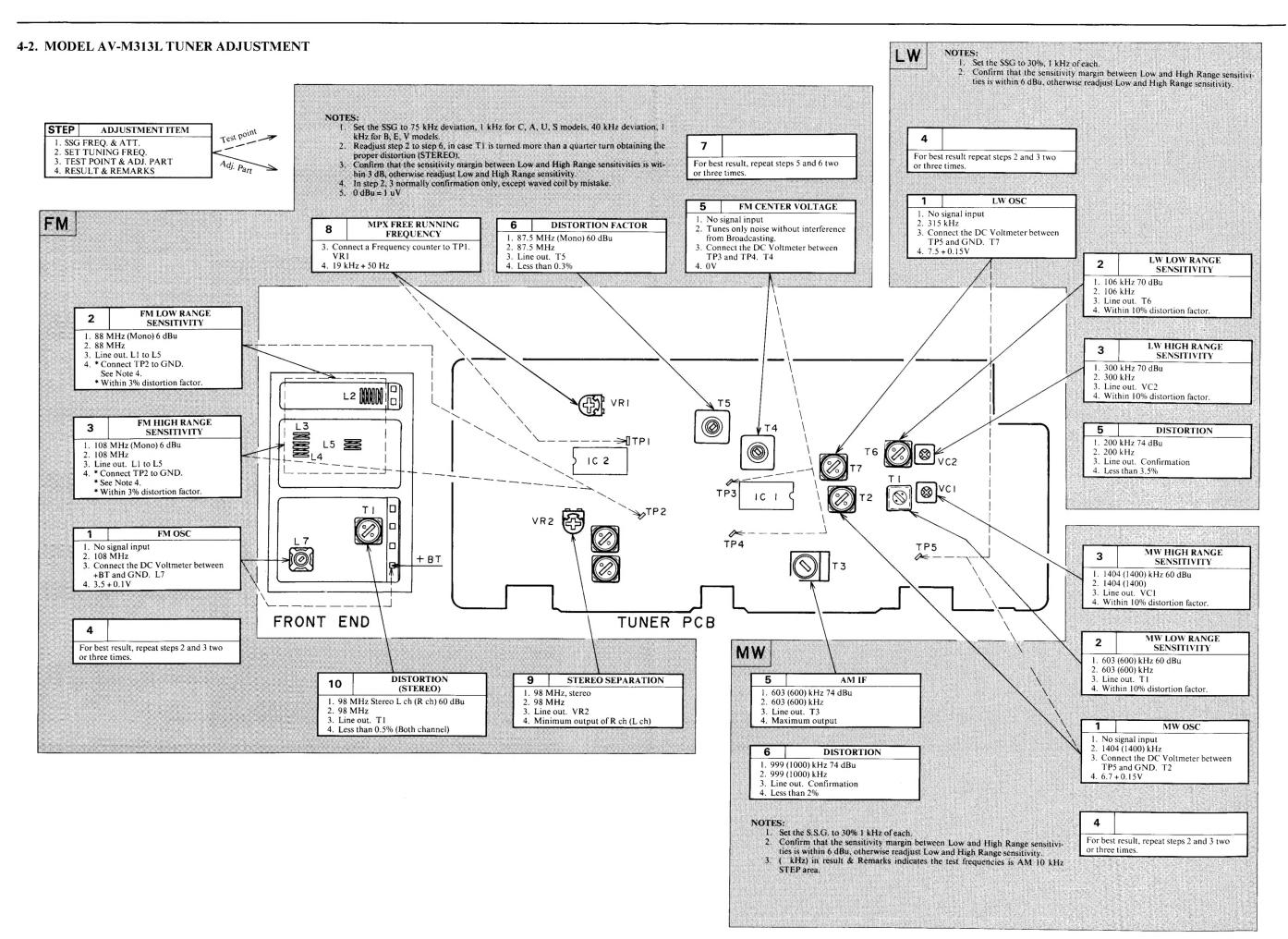
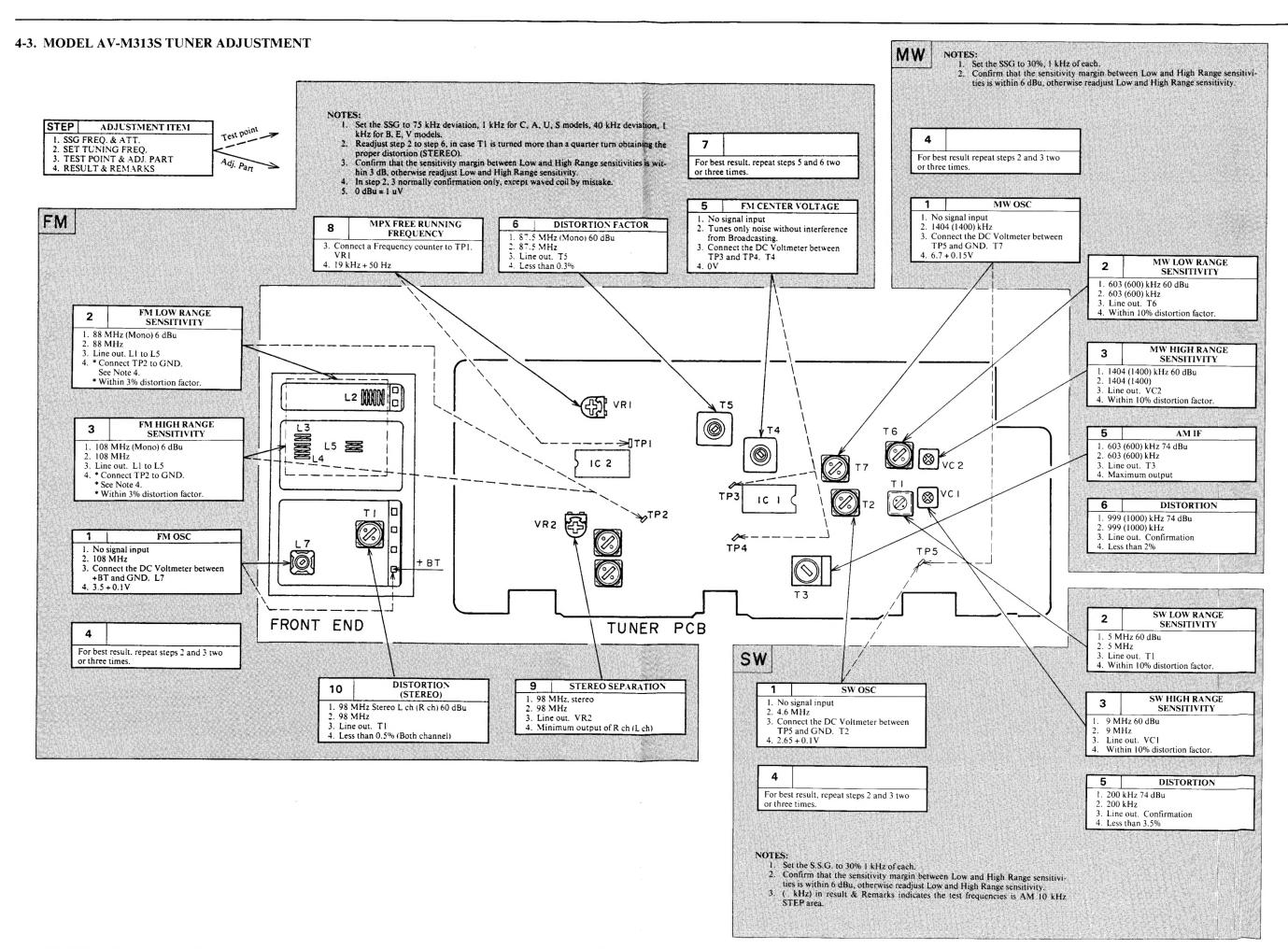


Fig. 4-2. Instrument Connections for AM (MW, LW, SW) Section Adjustment





ATTENTION

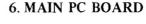
- 1. When placing an order for parts, be sure to list Part No., Model No. and the description of each part. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
- 2. Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.
- 3. Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

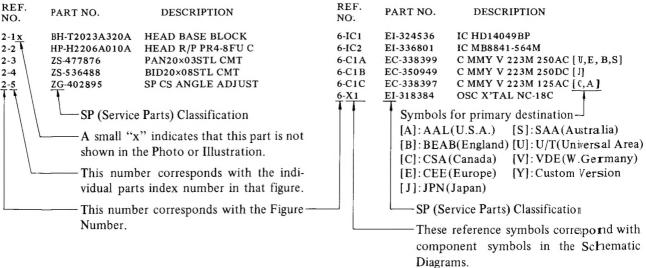
HOW TO USE THIS PARTS LIST

- 1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
- 2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important
- 3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
- 4. How to read the Parts List.
 - a) Mechanism Block

b) PC Board

2. HEAD BASE BLOCK





The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No. listed at right of Part No.

WARNING

△ (*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

⚠ (*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE JEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT.

1. P.C BOARD BLOCK

Ref. No.	Part No.	Description
1-1	BA-A1018A020A	PC TUNER BLK AV-M313S(U)
1-1A	BA-A1018A020B	PC TUNER BLK AV-M313S(C,A)
1-1B	BA-A1018A020C	PC TUNER BLK AV-M313S(S)
1-1C	BA-A1018A020E	PC TUNER BLK AV-M313L(E,B)
1-1D	BA-A1018A020F	PC TUNER BLK AV-M313L(V)
1-2	BA-F0142A010A	PC FRONT END BLK FE42(U,C,A,S)
		[U,C,A,S]
1-2A	BA-F0142A010E	PC FRONT END BLK FE42(L(E,B))
		[E,B]
1-2B	BA-F0142A010B	PC FRONT END BLK FE42(V)
		[V]
1-3	BA-A1018A030A	PC MAIN BLK AV-M313S(U)
1-3A	BA-A1018A030B	PC MAIN BLK AV-M313S(C)
1-3B	BA-A1018A030C	PC MAIN BLK AV-M313S(S)
1-3C	BA-A1018A030D	PC MAIN BLK AV-M313L(E)
1-3D	BA-A1018A030F	PC MAIN BLK AV-M313KL(V)
1-3E	BA-A1018A030G	PC MAIN BLK AV-M313L(B)
1-4	BA-A1018A070A	PC(#) CPU BLK AV-M313A(U)
1-4A	BA-A1018A070B	PC(#) CPU BLK AV-M313S(C,A)
1-5	BA-A1018A050A	PC FUNCTION BLK AV-M313S
		[EXCEPT V]
1-5A	BA-A1018A050B	PC FUNCTION BLK AV-M313L(V)
1-6	BA-A1018A080A	PC(#) LCD BLK AV-M313S

NOTE:

- (1) PC MAIN BLK consists of following PC BOARDS. *MAIN PC BOARD *FILTER PC BOARD
- (2) PC CPU BLK consists of following PC BOARDS. *PHONE J PC BOARD *POWER SW PC BOARD
- (3) PC FUNCTION BLK consists of following PC BOARDS.
 - *FUNCTION (A) PC BOARD *FUNCTION (B) PC BOARD
- (4) PC LCD BLK consists of following PC BOARD *LCD PC BOARD *SURROUND PC BOARD

2. TUNER P.C BOARD

Ref. No.	Part No.	Description
2-IC1	El-361624	IC LA1265
2-IC2	El-351849	IC UPC1235C
2-TR1	ET-356437	TR 2SC930 D2,E,F
2-TR2	ET-360067	TR 2SC3330 T,U F05
2-TR3	ET-360067	TR 2SC3330 T,U F05
2-TR4	ET-353899	TR 2SA1317 S,T,U
2-TR5	ET-353899	TR 2SA1317 S,T,U
2-TR6	ET-353899	TR 2SA1317 S,T,U
2-TR7	ET-360067	TR 2SC3330 T,U F05
2-TR8	ET-360067	TR 2SC3330 T,U F05
2-TR9	ET-338410	TR 2SC2878 A,B
		[E,B,V]
2-TR10	ET-356437	TR 2SC930 D2,E,F
		[U,C,A,S]
2-TR11	ET-349449	TR FET 2SK161 O,Y
2-TR22	ET-366413	TR FET 2SJ105 GR
2-TR24	ET-360067	TR 2SC3330 T,U F05
2-D1	ED-344280	D SILICON H GMA-01-FY2 F05
2-D2	ED-344280	D SILICON H GMA-01-FY2 F05
2-D3	ED-321180	D ZENER H HZ9 B2
2-D4	ED-360980	D SILICON V 1S2186GR F05
		[U,C,A,S]
2-D4A	ED-344280	D SILICON H GMA-01-FY2 F05
		[E,B,V]
2-D5	ED-344280	D SILICON H GMA-01-FY2 F05
2-D6	ED-349460	D VARACTER SVC321 A,B,C,D DBL

Ref. No.	Part No.	Description
2-D7	ED-349460	D VARACTER SVC321 A,B,C,D DBL
2-D26	ED-360980	D SILICON V 1S2186GR F05
2-VR1	EV-356576	R S-FIX H RH0615CS3J 3P 472
2-VR2	EV-361673	R S-FIX H RH0615CN5J 3P 334
2-FL1	EH-355568	FILTER CE SFE10.7MS2GY-A
2-FL2	EH-355568	FILTER CE SFE10.7MS2GY-A
2-FL3	EH-364675	FILTER LC LP 105-5028-01
2-FL4	EH-364675	FILTER LC LP 105-5028-01
2-FL5	EH-363344	FILTER LC LP 123-5010-03
2110	E11-303344	-
0.10		[V]
2-L3	EO-365147	COIL FIX 1 LALO3NA 390K
		[U,C,A,S]
2-T1	EO-337598	COIL VARI 2 25A-1353-01
		[E,B,V]
2-T1A	EO-362293	COIL VARI 2 25A-5409
		[U,C,A,S]
2-T2	EO-363327	COIL OSC 2 A119AN-16792N
- 1-	20 300327	[U,C,A,S]
2 724	FO 202270	
2-T2A	EO-363279	COIL OSC 2 A7NRS-9857X 150.0UH
		[E,B,V]
2-T3	EO-361628	COIL IFT CFMA-027 450.0KHZ
		[U,C,A,S]
2-T3A	EO-356732	COIL IFT BCFLZ-450A
		[E,B,V]
2-T4	EO-363291	COIL DET 2 78-1128-01
2-T5	EO-361630	COIL DET 2 78-1126-02
2-T6	EO-337599	COIL VARI 2 25A-1354-03
		[E,B,V]
2-T6A	EO-337598	COIL VARI 2 25A-1353-01
		[U,C,A,S]
2-T7	EO-363279	COIL OSC 2 A7NRS-9857X 150.0UH
		[U,C,A,S]
2-T7A	EO-352089	COIL OSC 2 7BRS-9098X 580.0UH
2	20 002000	[E,B,V]
2.06	** FD 227710	
2-R6	*ER-327710	R CB H S10 FS RDS 1/4W 151J
2-R34	≭ER-200939	R CB H S10 FS RDS 1/4W 181J
2-R60	*ER-322591	R CB H S10 FS RDS 1/4W 101J
2-VC1	EC-363331	C S-FIX H CTC-6U-030 5.5-30
2-VC2	EC-359065	C S-FIX H CTC-6U-020 4.3-20
		[U,C,A,S]
2-VC2A	EC-365146	C S-FIX H CTC-6U-050 9.1-50
,		[E,B,V]
2-C27	EC-334072	C STY V F05 CQ09S 431J 50DC
2.02/	LU-334072	
0.0074	50.007000	[E,B,V]
2-C27A	EC-327096	C STY V F05 CQ09S 222J 50.0DC
		[U,C,A,S]
2-C28	EC-334068	C STY V F05 CQ09S 271J 50DC
		[E,B,V]
2-C28A	EC-334072	C STY V F05 CQ09S 431J 50DC
		[U,C,A,S]
2-C34	EC-306987	C STY V F05 500 471J 50DC
2-C43	EC-317623	C STY V F05 500 102J 50DC
2-043	EC-317023	
2.0424	FO 004404	[U,S]
2-C43A	EC-334421	C STY V F05 500 182J 50D C
		[C,A]
2-C43B	EC-316150	C STY V F05 500 821J 50D€
		[E,B,V]
2-C44	EC-317623	C STY V F05 500 102J 50DC
		[U,S]
2-C44A	EC-334421	C STY V F05 500 182J 50DC
_ 5.77	LO GOTTE!	
2 CAAD	EC 216150	[C,A]
2-C44B	EC-316150	C STY V F05 500 821J 500€
		[E,B,V]

3. FRONT END P.C BOARD

Ref. No.	Part No.	Description
3-TR1	ET-355556	TR FET 2SK241 Y
3-TR2	ET-336869	TR 2SC2999 C,D
3-TR3	ET-328265	TR 2SC930 F
3-TR4	ET-349449	TR FET 2SK161 O,Y
3-D1	ED-349448	D VARACTOR 1SV147
3-D2	ED-349448	D VARACTOR 1SV147

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
3-D3	ED-349448	D VARACTOR 1SV147	4-RL1	EQ-344440-A	RELAY SIG G2VN-287P 2TR 24V
3-D4	ED-349448	D VARACTOR 1SV147	4-SW1	ES-361613	SW PUSH SPPJ4 TYPE 02-02N
3-D5	ED-344280	D SILICON H GMA-01-FY2 F05	4-SW2	ES-360115	SW SLIDE 00120262 01-02S
0.00		[U,C,A,S]			[U]
3-L1	EO-349461	COIL FIX 2 LINK	4-L1	EO-337880	COIL FIX 2 202AK-018 2R2K
3-L2	EO-349462	COIL FIX 2 U147	4-L101	EO-345907	COIL FIX 1 LALO3KH 3R3K
3-L3	EO-349461	COIL FIX 2 LINK			[U,C,A,S]
3-L4	EO-349462	COIL FIX 2 U147	4-X101	EI-344422	OSC X'TAL HC-18/U 7.200MHZ
3-L5	EO-349462	COIL FIX 2 U147	4-FR1	*ER-328278	R FUSE ERD2FC 1/4W 10R0G
3-L6	EO-359056	COIL FIX 1 LALO3NA 2R2M	4-FR2	*ER-328278	R FUSE ERD2FC 1/4W 10R0G
3-L7	EO-353687	COIL OSC 2 E525HN-110003	4-FR3	*ER-345751	R FUSE ERD2FC S10 1/4W 15ROG
3-T1	EO-337640	COIL IFT 119AC-15533X 10.7MHZ	4-FR4	*ER-345751	R FUSE ERD2FC S10 1/4W 15ROG
•	20 001010		4-FR5	*ER-328278	R FUSE ERD2FC 1/4W 10R0G
			4-FR6	*ER-318647	R FUSE ERD2FC S10 1/4W 4R7J
			4-R11	*ER-325269	R CB H S10 FS RDS 1/4W 222J
			4-R14	*ER-359266	R OMF H S12 FS 1W 100J
			4-R15	*ER-359266	R OMF H S12 FS 1W 100J
			4-R18	*ER-333405	R CB H S10 FS RDS 1/4W 362J
A MAAI	N P.C BOA	RD	4-R26	*ER-333355	R CB H S10 FS RDS 1/4W 103J
T. IVIA	MI.C DOA	IIID	4-R27	*ER-302241	R CB H S10 FS RDS 1/4W 4R7J
	_		4-R28	ER-333405	R CB H S10 FS RDS 1/4W 362J
Ref. No.	Part No.	Description	4-R31	*ER-362228	R OMF H FS 1W 750J
4-IC1	*El-358554	IC STK4152-2	4-R45	*ER-359738	R OMF H S15 FS 1W 151J
4-IC101	El-361622	IC LM7001			[U.C.A.S]
4-TR1	*ET-360687	TR 2SB1015 Y,GR	4-R118	*ER-359268	R OMF H S12 FS 1W 181J
4-TR2	ET-359827	TR FET 2SK246 BL	4-R121	*ER-327710	R CB H S10 FS RDS 1 / 4W 151 J
4-TR3	ET-345626	TR 2SA1248 S.T	4-VC1	EC-324938	C CE V F05 F 473Z 50F
4-TR4	ET-337759	TR FET 2SK246 GR		20 02 7000	[V]
4-TR5	*ET-349459	TR 2SD1406 O,Y,GR	4-VC2	EC-200809	C CE V F05 F 103Z 50DC
4-TR6	ET-359827	TR FET 2SK246 BL	, , , ,	20 20000	[V]
4-TR7	*ET-345625	TR 2SC3116 S,T	4-VC3	EC-200809	C CE V F05 F 103Z 50DC
4-TR8	ET-337759	TR FET 2SK246 GR	1 700	200000	[V]
4-TR9	*ET-349459	TR 2SD1406 O,Y,GR	4-C1	EC-364328	C EC V CUT 682M 50DC
4-TR10	ET-359827	TR FET 2SK246 BL	4-C2	EC-364328	C EC V CUT 682M 50DC
4-TR11	*ET-349459	TR 2SD1406 O,Y,GR	4-C5	EC-316231	C EC V CUT AS1 222M 35.0DC
4-TR12	ET-359827	TR FET 2SK246 BL	4-C45	EC-320548	C CE V F 103Z 250AC
4-TR13	*ET-349459	TR 2SD1406 O.Y.GR	4-C46	EC-320548	C CE V F 103Z 250AC
4-TR14	ET-337759	TR FET 2SK246 GR	4-J10	EJ-361614	PIN J JPJ2032-01-030 WHITE
4-TR15	ET-338565	TR 2SD1302 R,S	4-J11	EJ-361615	PIN J JPJ2032-01-020 RED
4-TR16	ET-308472	TR 2SA1115 E.F.G F05	4-TM1	EJ-359264	TERMINAL LEVER YKD21-0023 A P 4
4-TR17	*ET-345625	TR 2SC3116 S,T	4-TM2	EJ-359031	TERMINAL LEVER YKD31-0215 P 2P
4-TR18	ET-200986	TR 2SD863-V8 F	4-1	BA-F0142A010A	PC FRONT END BLK FE42(U,C,A,S)
4-TR19	*ET-307195	TR 2SC2240 GR,BL		2711011271071	[U,C,A,S]
4-TR20	ET-360067	TR 2SC3330 T.U F05	4-1A	BA-F0142A010E	PC FRONT END BLK FE42(L(E,E)
4-TR21	ET-360067	TR 2SC3330 T.U F05			[E,B]
4-TR22	ET-360067	TR 2SC3330 T,U F05	4-1B	BA-F0142A010B	PC FRONT END BLK FE42(V)
4-TR23	ET-360067	TR 2SC3330 T,U F05			[V]
4-TR101	ET-360067	TR 2SC3330 T,U F05	4-F1	*EF-326613	FUSE TSC A 250V 5.00A
		[EXCEPT L]			[U]
4-TR102	ET-360067	TR 2SC3330 T,U F05	4-F1A	*EF-346139	FUSE TSC 125V 5.00A
		[EXCEPT L]			[C,A]
4-TR103	ET-360067	TR 2SC3330 T,U F05	4-F1B	*EF-690996	FUSE SEMKO T 250V 4.00A
4-TR104	ET-337759	TR FET 2SK246 GR			[E,V,S]
4-D1	*ED-350748	D SILICON DBA60-K15 200/1.0A	4-F1C	*EF-359086	FUSE BET T 250V 4.00A
4-D2	*ED-353550	D SILICON DBA30-C-K12 200/3.0A			[B]
4-D3	*ED-348990	D SILICON H DS446	4-F2	*EF-326613	FUSE TSC A 250V 5.00A
4-D4	*ED-348990	D SILICON H DS446			[U]
4-D5	ED-346618	D ZENER H HZ15 1	4-F2A	*EF-346139	FUSE TSC 125V 5.00A
4-D6	ED-361916	D ZENER H HZS10J F05 B1			[C,A]
4-D7	ED-346618	D ZENER H HZ15 1	4-F2B	*EF-690996	FUSE SEMKO T 250V 4.00A
4-D8	ED-361916	D ZENER H HZS10J F05 B1			[E,V,S]
4-D9	ED-346618	D ZENER H HZ15 1	4-F2C	*EF-359086	FUSE BET T 250V 4.00A
4-D10	ED-315759	D ZENER H HZ16 1			[B]
4-D11	ED-346618	D ZENER H HZ15 1	4-F3	*EF-306950	FUSE TSC A 250V 2.00A
4-D12	ED-301911	D SILICON H DS448			[U]
4-D13	ED-329056	D ZENER H HZ22 2	4-F3A	*EF-306954	FUSE TSC 125V 2.00A
4-D14	ED-301911	D SILICON H DS448			[C,A]
4-D15	ED-348990	D SILICON H DS446	4-F3B	≭EF-601964	FUSE SEMKO T 250V 1.60A
4-D16	ED-329051	D ZENER H HZ24 3			[E,V,S]
4-D17	ED-329057	D ZENER H HZ11 A1	4-F3C	*EF-364518	FUSE BET T 250V 2.50A
4-D18	ED-301911	D SILICON H DS448		-	[B]
4-D19	ED-301911	D SILICON H DS448	4-F4	*EF-326639	FUSE TSC A 250V 3.15A
4-D101	ED-360980	D SILICON V 1S2186GR F05			[U]
		[U,C,A,S]	4-F4A	*EF-323080	FUSE TSC 125V 3.15A
4-D102	ED-301911	D SILICON H DS448			[C,A]
		[EXCEPT L]	4-F4B	*EF-623125	FUSE SEMKO T 2250V 2.50A
			_		
4-D103	ED-331197	D ZENER H HZ6 C1			[E,V,S]

[EXCEPT L]

Ref. No.	Part No.	Description
4-F5	*EF-326639	FUSE TSC A 250V 3.15A [U]
4-F5A	*EF-323080	FUSE TSC 125V 3.15A [C,A]
4-F5B	*EF-623125	FUSE SEMKO T 2250V 2.50A [E,V,S]
4-F5C	*EF-364518	FUSE BET T 250V 2.50A

5. CPU (A) P.C BOARD

Ref. No.	Part No.	Description
5-IC1	El-356370	IC LA7224
5-IC2	EI-347120	IC SN74LS145N
5-IC3	El-347120	IC SN74LS145N
5-IC4	El-364519	IC LB1417
5-IC5	EI-359053	IC LA3600
5-TR1	ET-360067	TR 2SC3330 T,U F05
		[U]
5-D1	ED-301911	D SILICON H DS448
		[E,B,V]
5-D3	ED-301911	D SILICON H DS448
		[C,A]
5-D4	ED-361802	D LED GL-5NG27 GREEN
5-D5	ED-361802	D LED GL-5NG27 GREEN
5-D6	ED-361802	D LED GL-5NG27 GREEN
5-D7	ED-361802	D LED GL-5NG27 GREEN
5-D8	ED-361802	D LED GL-5NG27 GREEN
5-D9	ED-361802	D LED GL-5NG27 GREEN
5-D10	ED-361802	D LED GL-5NG27 GREEN
5-D11	ED-361802	D LED GL-5NG27 GREEN
5-D12	ED-361802	D LED GL-5NG27 GREEN
5-D13	ED-361802	D LED GL-5NG27 GREEN
5-D14	ED-361802	D LED GL-5NG27 GREEN
5-D15	ED-361802	D LED GL-5NG27 GREEN
5-D16	ED-361802	D LED GL-5NG27 GREEN
5-D17	ED-360409	D PHOT PN323B
5-SW1	ES-359988	SW TACT SKHHAN
5-SW2	ES-359988	SW TACT SKHHAN
5-SW3	ES-359988	SW TACT SKHHAN
5-SW4	ES-359988	SW TACT SKHHAN
5-SW5	ES-359988	SW TACT SKHHAN
5-SW6	ES-359988	SW TACT SKHHAN
5-SW7	ES-359988	SW TACT SKHHAN
5-SW8	ES-359988	SW TACT SKHHAN
5-SW9	ES-359988	SW TACT SKHHAN
5-SW10 5-SW11	ES-359988	SW TACT SKHHAN SW TACT SKHHAN
5-SW12	ES-359988 ES-359988	SW TACT SKHHAN
5-SW13	ES-359988	SW TACT SKHHAN
5-SW14	ES-359988	SW TACT SKHHAN
5-SW15	ES-359988	SW TACT SKHHAN
5-SW16	ES-359988	SW TACT SKHHAN
5-SW17	ES-359988	SW TACT SKHHAN
5-SW18	ES-359988	SW TACT SKHHAN
5-SW19	ES-359988	SW TACT SKHHAN
5-SW20	ES-359988	SW TACT SKHHAN
5-SW21	ES-349367	SW TACT SKHHAK003A
5-SW22	ES-349367	SW TACT SKHHAK003A
5-SW23	ES-349367	SW TACT SKHHAKOO3A
5-SW24	ES-349367	SW TACT SKHHAK003A
5-SW25	ES-359988	SW TACT SKHHAN
5-SW26	ES-359988	SW TACT SKHHAN
5-VR1	EV-361635	VR SLIDE S302GN 503
5-VR2	EV-359083	VR SLIDE 30PSVOH MN254
5-VR3	EV-361636	VR SLIDE 30P2SVOI W104 W / CLICK
5-VR4	EV-361636	VR SLIDE 30P2SVOI W104 W/CLICK
5-VR5	EV-361636	VR SLIDE 30P2SVOI W104 W / CLICK
5-VR6	EV-361636	VR SLIDE 30P2SVOI W104 W / CLICK
5-VR7	EV-361636	VR SLIDE 30P2SVOI W104 W / CLICK
5-L1	EO-330719	COIL FIX 1 187LY-103K 103K

6. CPU (B) P.C BOARD

Ref. i	No. Par	t No.	Description
6-IC1	El-33	37228	IC M5218L
6-IC2	El-33	37228	IC M5218L
6-IC3	El-33	37228	IC M5218L
6-IC4	El-36	31637	IC TC9155AP
6-IC5		00573	IC TC4053BP
6-IC6		37228	IC M5218L
6-IC7		31638	IC TC9153AP
6-IC10		32325	IC V313-6359 CUSTOM
0-1010	J1 E1-00	72020	[U,C,A,S]
6-IC10	114 5136	34634	IC A1018-6358
0-10-10	JIA EI-30	14034	[E,B,V]
C TD1	ET 2	E1070	TR 2SC3383 R,S
6-TR1		51872	
6-TR2		51872	TR 2SC3383 R,S
6-TR3		51872	TR 2SC3383 R,S
6-TR4		861640	TR RN1205
6-TR5		160067	TR 2SC3330 T,U F05
6-TR6		161640	TR RN1205
6-TR7		160067	TR 2SC3330 T,U F05
6-TR8		52726	TR 2SA1392 T,U
6-TR1		08012	TR 2SD571 K
6-D1	ED-3	144280	D SILICON H GMA-01-FY2 FO5
6-D2	ED-3	144280	D SILICON H GMA-01-FY2 FO5
6-D3	ED-3	37266	D ZENER H HZ9 A1
6-D4	ED-3	144280	D SILICON H GMA-01-FY2 FO5
6-D5	ED-3	144280	D SILICON H GMA-01-FY2 FO5
6-D6	ED-3	44280	D SILICON H GMA-01-FY2 FO5
6-D7	ED-3	44280	D SILICON H GMA-01-FY2 FO5
6-D8	ED-3	37266	D ZENER H HZ9 A1
6-D9	ED-3	01911	D SILICON H DS448
6-D10	ED-3	46603	D ZENER H HZ6 A1
6-D12	ED-3	01911	D SILICON H DS448
6-D13		01911	D SILICON H DS448
6-D14		09069	D ZENER H HZ6 B2
6-D15		44280	D SILICON H GMA-01-FY2 FO5
6-D16		44280	D SILICON H GMA-01-FY2 FO5
6-D17		44280	D SILICON H GMA-01-FY2 FO5
6-D18		44280	D SILICON H GMA-01-FY2 FO5
6-D19		801911	D SILICON H DS448
6-D20		30962	D ZENER H HZ4 C1
6-D21		44280	D SILICON H GMA-01-FY2 FO5
6-D22		01911	D SILICON H DS448
6-D23		44280	D SILICON H GMA-01-FY2 FO5
6-D24		01911	D SILICON H DS448
6-D10		37265	D ZENER H HZ6 C2
6-D10		09069	D ZENER H HZ6 B2
2-D10		44280	D SILICON H GMA-01-FY2 FO5
		44280	D SILICON H GMA-01-F 12 FO5
6-D10			
6-D10		44280	D SILICON H GMA-01-FY2 FO5
6-D10		44280	D SILICON H GMA-01-FY2 FO5
6-X10		30256	OSC CE F85-006 4MHZ
6-SR1		61668	COMP R RKC10DS 472J
6-SR1		61668	COMP R RKC10DS 472J
6-SR1		61669	COMP R RKC4BS 472J
6-SR1		61670	COMP R RKC6BS 472J
6-FR1		00595	R FUSE ERD2FC S10 1 /4W 5R6J
6-R46		24185	R CB H S10 FS RDS 1/4W 221J
6-R53		22331	R CB H S10 FS RDS 1/4W 821J
6-R10		59269	R OMF H S12 FS 1W 22IJ
6-R10		25269	R CB H S10 FS RDS 1/4W 222J
6-1	EJ-3	62280	SOCKET IC S-I2482 42P

7. FUNCTION (A) P.C BOARD

Ref. No.	Part No.	Description
7-IC1	El-349392	IC TC9164N
7-IC2	El-349719	IC M5218P
7-D1	ED-301911	D SILICON H DS448
7-D2	ED-301911	D SILICON H DS448
7-VL1	EO-345918	COIL FIX 1 LALO3KH 220K
7-VL2	EO-345918	COIL FIX 1 LALO3KH 220K
7-VL3	EO-345918	COIL FIX 1 LALO3KH 220K
7-VL4	EO-345918	COIL FIX 1 LALO3KH 220K
7-VL5	EO-345918	COIL FIX 1 LALO3KH 220K
7-J1	EJ-343365	PIN J YMC21-0063 P 4P
7-J2	EJ-343365	PIN J YMC21-0063 P 4P
7-J3	EJ-362033	PHONE J 3P HSJ1406 3.5

8. FUNCTION (B) P.C BOARD

Ref. No.	Part No.	Description
8-IC1	El-353852	IC LA7016
8-TR1	ET-308141	TR 2SC2603 G F05
8-TR2	ET-308141	TR 2SC2603 G F05
8-TR3	ET-308141	TR 2SC2603 G F05
8-TR4	ET-308141	TR 2SC2603 G F05
8-VL1	EO-345918	COIL FIX 1 LALO3KH 220K
		[V]
8-VL2	EO-345918	COIL FIX 1 LALO3KH 220K
		[V]
8-VL3	EO-345918	COIL FIX 1 LAL03KH 220K
		[V]
8-R7	*ER-322591	R CB H S10 FS RDS 1/4W 101J
8-R8	*ER-322591	R CB H S10 FS RDS 1/4W 101J
8-R9	ER-365172	R OMF H S12 FS 1W 331J
8-J1	EJ-356658	PIN J 1T-31K0425 10P

9. PHONE JACK P.C BOARD

Ref. No.	Part No.	Description
9-SW1	ES-359071	SW PUSH ESB-62771 2-02-02N
9-VL1	EO-336934	COIL FIX 1 LALO3KH 2R2M
9-VL2	EO-336934	COIL FIX 1 LALO3KH 2R2M
9-R2	ER-359268	R OMF H S12 FS 1W 181J
9-VC1	EC-316441	C CE H F10 B 221K 50DC [L]
9-VC2	EC-316441	C CE H F10 B 221K 50DC
9-J1	EJ-349657	PHONE J 2P HSJ0922-050 3.5 C
9-J2	EJ-349658	PHONE J 2P HSJ0922-040 3.5 T

10. LCD P.C BOARD

Ref. No.	Part No.	Description
10-IC1	El-361230	IC LC7580
10-LC1	EM-361644	IND LCD 9419P

11. SURROUND P.C BOARD

Ref	f. No.	Part No.	Description
11-	IC1	El-361645	IC IR2E34
11-	IC2	El-361645	IC IR2E34
11-	IC3	El-337228	IC M5218L
11-	IC4	El-337228	IC M5218L
11-	TR1	ET-360067	TR 2SC3330 T,U F05
11-	TR2	ET-360067	TR 2SC3330 T,U F05
11-	TR3	ET-360067	TR 2SC3330 T,U F05
11-	LCD1	EM-361646	IND LCD 9420P

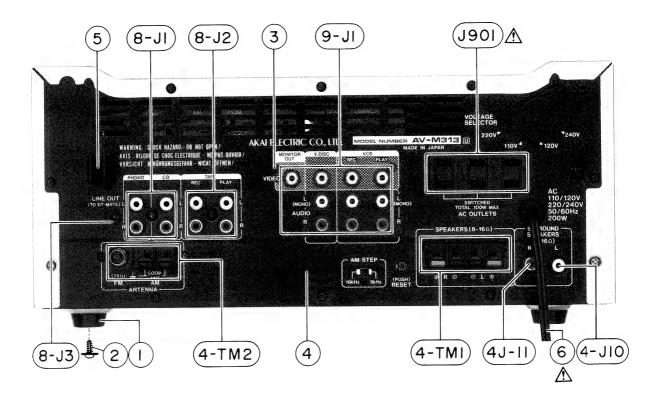
12. POWER SW P.C BOARD

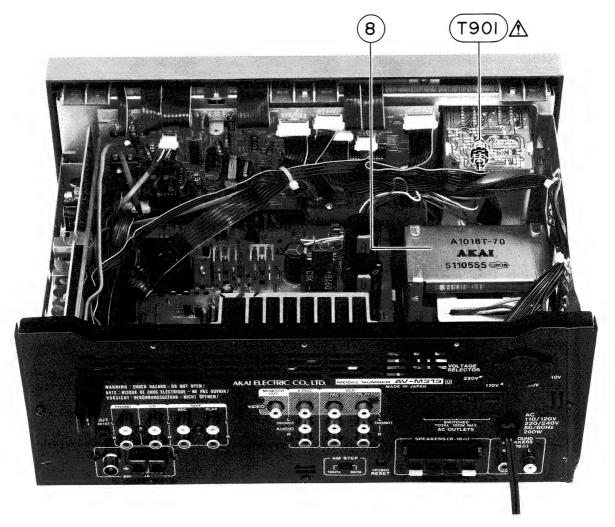
Ref. No.	Part No.	Description
12-SW1	*ES-361797	SW PUSH SDDLD1
12-C1	*EC-320548	C CE V F 103Z 250AC [U]
12-C1A	*EC-338411	C CE V FZ 103P 400AC [EXCEPT U]

13. FILTER P.C BOARD

Ref. No.	Part No.	Description
13-FL1	EO-338409	COIL LF FKOB160MH02 250UH
13-R1	ER-356573	R SD ANTI-STATIC 1/2W 225K
13-F6	★EF-306951	FUSE TSC A 250V 2.50A
13-F7	*EF-306951	FUSE TSC A 250V 2.50A

ASSEMBLY BLOCK

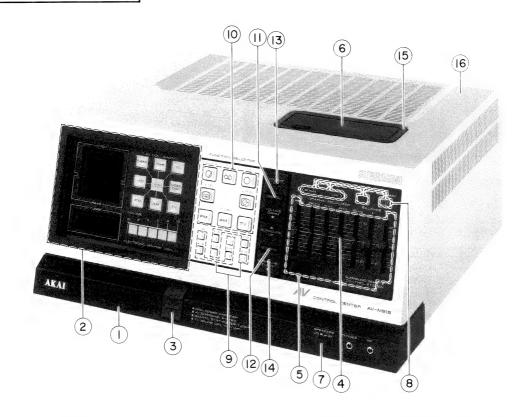




14. ASSEMBLY BLOCK

Ref. No.	Part No.	Description
14-1	SA-202118	FOOT
14-2	ZS-346742	ST BID40X08STL CMT CUP [TRANS POWER FIX]
14-3	ZW-698308	RV NYL30X055 BL
14-4	SP-361401E-A	PANEL REAR AV-M313(U)
14-4A	SP-361401B-A	PANEL REAR AV-M313(A,C)
14-4B	SP-361401C-A	PANEL REAR AV-M313(B,S)
14-4C	SP-361401D-A	PANEL REAR AV-M313(E,V)
14-5	SZ-362273	HOLDER ANTENNA (2)
14-6	*EW-363659	AC CORD 200 0129AVFF B070 A U/T [U]
14-6A	*EW-363647	AC CORD 200 238APSPT2 B070 A UC [C.A]
14-6B	*EW-363698	AC CORD 200 0436 LCFL B070 A S [S]
14-6C	*EW-363672	AC CORD 200 0364 LCFL B070 A EV
14-6D	*EW-363684	AC CORD 200 LCFL B070 A B [B]
14-7	EE-359265	ANT LOOP LA-200A-A
14-8	ZS-308846	T2BR30X08STL BZN PROJECTION [COVER UPPER FIX]
14-9	ZS-311745	T2BR30X08STL BNI PW080 [COVER UPPER FIX]
14-T901	*BT-361595	TRANS POWER A1018T-70 [U]
14-T901A	*BT-361592	TRANS POWER A1018T-30 [C]
14-T901B	*BT-361591	TRANS POWER A1018T-20 [A]
14-T901C	*BT-361594	TRANS POWER A1018T-50 [S,B]
14-T901D	*BT-361593	TRANS POWER A1018T-40 [E]
14-T901E	*BT-361804	TRANS POWER A1018T-60 [V]
14-SW901	*ES-364594	SW SELECTOR YKS11-0012 02-4 [U]
14-J901	*EJ-364357	SOCKET OUTLET S2T-733T162 [U]
14-J901A	*EJ-364358	SOCKET OUTLET S2T-733T112 [C,A]
14-IN901	EL-361656	PL CORD 14.0V 100MA L = 260
14-IN902	EL-361656	PL CORD 14.0V 100MA L = 260
14-IN903	EL-361656	PL CORD 14.0V 100MA L = 260
14-L901	EO-362435	COIL FIX 1 LALO3NA R22M

FINAL ASSEMBLY BLOCK



15. FINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
15-1	BD-B361415D	PANEL FRONT M313 PART
15-1A	BD-B361415H	PANEL FRONT M313L PART
15-1-B	BD-B361415C	PANEL FRONT M313-B PART
15-1A-B	BD-B361415G	PANEL FRONT M313L-B PART
15-2	BD-B361429X3	PANEL WINDOW (3) PART
15-2A	BD-B361429X2	PANEL WINDOW (2) PART
15-3	EZ-361808	HOLDER LAMP EQ300-42101A WHITE
15-4	SK-361411	KNOB POWER
15-5	SK-361409	KNOB SLIDE
15-6	SP-361408	PLATE SLIDE
15-7	SK-361410	KNOB SP
15-8	SK-361418C	KNOB TUNING (2)
15-8-B	SK-361418D	KNOB TUNING (2)-B
15-9	SK-361425A	KNOB PRESET
15-9-B	SK-361425B	KNOB PRESET-B
15-10	SK-361420E	KNOB OPERATION (3)
		KNOB OPERATION (2)
15-10-B	SK-361420F	KNOB OPERATION (3)-B
15-10A-B	SK-361420D	KNOB OPERATION (2)-B
	SK-361421	KNOB MUTE
	SK-361421B	KNOB MUTE(2)
	SK-361419A	KNOB VR
	SK-361419B	
	SK-361419C	KNOB VR (2)
15-15X	ZS-331567	T2BR30X08STL CMT C080
		[PANEL FRONT FIX]
15-16X	ZS-319460	T2BR30X06STL BZN PROJECTION
		[PANEL FRONT FIX]
	SP-361414C	COVER UPPER (3)
	SP-361414D	
15-18X	EJ-352118	SOCKET COAX PAL B2-714P-900

SYMBOL FOR COLOR VARIATION

NON: STANDARD COLOR

-B: BLACK

16. REMOTE CONTROL UNIT RC-M313

Ref. No.	Part No.	Description
16-1	AX-361747	REMOCON RC-M313 WIRELESS(T)
16-IC1	El-749983	IC UPD1943G
16-TR1	ET-718040	TR 2SD1468
16-D1	ED-705414	D LED SE303A INFRARED
16-D2	ED-705414	D LED SE303A INFRARED
16-D3	ED-718039	D SILICON DAN201
16-D4	ED-557447	D SILICON H 1S1588
16-X1	El-749984	OSC CE KBR455BAT 455KHZ
16-2	SC-718041	COVER BATTERY
16-3	SZ-718044	JOINT

INDEX

Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
AX-361747 BA-A1018A020A BA-A1018A020B BA-A1018A020C BA-A1018A020F BA-A1018A030A BA-A1018A030B BA-A1018A030C BA-A1018A030D	16-1 1-1 1-1A 1-1B 1-1C 1-1D 1-3 1-3A 1-3B 1-3C	ED-329051 ED-329056 ED-329057 ED-330962 ED-331197 ED-337266 ED-337266 ED-344280 ED-344280	4-D16 4-D13 4-D17 6-D20 4-D103 6-D101 6-D3 6-D8 2-D1 2-D2	EF-346139 EF-346139 EF-359086 EF-359086 EF-359343 EF-364518 EF-364518 EF-601964 EF-623125 EF-623125	4-F1A 4-F2A 4-F1C 4-F2C 4-F4C 4-F3C 4-F5C 4-F3B 4-F4B 4-F5B	EO-345918 EO-345918 EO-345918 EO-345918 EO-345918 EO-345918 EO-345918 EO-345918 EO-345918 EO-349461	7-VL1 7-VL2 7-VL3 7-VL4 7-VL5 8-VL1 8-VL2 8-VL3 3-L1 3-L3
BA-A1018A030F BA-A1018A030G BA-A1018A050A BA-A1018A050B BA-A1018A070A BA-A1018A070B BA-A1018A080A BA-F0142A010A BA-F0142A010A BA-F0142A010B	1-3D 1-3E 1-5 1-5A 1-4 1-4 1-6 1-2 4-1 1-2B	ED-344280 ED-344280 ED-344280 ED-344280 ED-344280 ED-344280 ED-344280 ED-344280 ED-344280 ED-344280	2-D4A 2-D5 3-D5 4-D105 6-D1 6-D2 6-D4 6-D5 6-D6 6-D7	EF-690996 EF-690996 EH-355568 EH-355568 EH-361668 EH-361669 EH-361670 EH-363344 EH-364675	4-F1B 4-F2B 2-FL1 2-FL2 6-SR101 6-SR102 6-SR103 6-SR104 2-FL5 2-FL3	EO-349462 EO-349462 EO-352089 EO-353687 EO-356732 EO-361628 EO-361630 EO-362293	3-L2 3-L4 3-L5 2-T7A 3-L7 2-T3A 3-L6 2-T3 2-T5 2-T1A
BA-F0142A010B BA-F0142A010E BA-F0142A010E BD-B361415C BD-B361415G BD-B361415G BD-B361415H BD-B361429X2 BD-B361429X3 BT-361591	4-1B 1-2A 4-1A 15-1-B 15-1 15-1A-B 15-1A 15-2A 15-2 14-T901B	ED-344280 ED-344280 ED-344280 ED-344280 ED-344280 ED-344280 ED-344280 ED-344280 ED-344280 ED-344280	6-D15 6-D16 6-D17 6-D18 6-D21 6-D23 2-D103 6-D104 6-D105 6-D106	EH-364675 EI-200573 EI-330256 EI-337228 EI-337228 EI-337228 EI-337228 EI-337228 EI-337228 EI-337228	2-FL4 6-IC5 6-X101 6-IC1 6-IC2 6-IC3 6-IC6 11-IC3 11-IC4 4-X101	EO-362435 EO-363279 EO-363279 EO-363291 EO-363327 EO-365147 EQ-344440-A ER-200595 ER-200939 ER-302241	14-L901 2-T2A 2-T7 2-T4 2-T2 2-L3 4-RL1 6-FR101 2-R34 4-R27
BT-361592 BT-361593 BT-361594 BT-361595 BT-361804 EC-200809 EC-200809 EC-306987 EC-316150 EC-316150	14-T901A 14-T901D 14-T901C 14-T901 14-T901E 4-VC2 4-VC3 2-C34 2-C43B 2-C44B	ED-346603 ED-346618 ED-346618 ED-346618 ED-348990 ED-348990 ED-348990 ED-349448 ED-349448	6-D10 4-D5 4-D7 4-D9 4-D11 4-D3 4-D4 4-D15 3-D1 3-D2	EI-347120 EI-347120 EI-349392 EI-349719 EI-351849 EI-356370 EI-356370 EI-358554 EI-359053 EI-361230	5-IC2 5-IC3 7-IC1 7-IC2 2-IC2 8-IC1 5-IC1 4-IC1 5-IC5 10-IC1	ER-318647 ER-322331 ER-322591 ER-322591 ER-322591 ER-324185 ER-325269 ER-325269 ER-327710 ER-327710	4-FR6 6-R53 2-R60 8-R7 8-R8 6-R46 4-R11 6-R102 2-R6 4-R121
EC-316231 EC-316441 EC-316441 EC-317623 EC-317623 EC-320548 EC-320548 EC-320548 EC-324938 EC-324938 EC-327096	4-C5 9-VC1 9-VC2 2-C43 2-C44 4-C45 4-C46 12-C1 4-VC1 2-C27A	ED-349448 ED-349440 ED-349460 ED-350748 ED-353550 ED-360409 ED-360980 ED-360980	3-D3 3-D4 2-D6 2-D7 4-D1 4-D2 5-D17 2-D4 2-D26 4-D101	EI-361622 EI-361624 EI-361637 EI-361638 EI-361645 EI-361645 EI-362325 EI-364519 EI-364634 EI-749983	4-IC101 2-IC1 6-IC4 6-IC7 11-IC1 11-IC2 6-IC101 5-IC4 6-IC101A 16-IC1	ER-328278 ER-328278 ER-328278 ER-333355 ER-333405 ER-345751 ER-345751 ER-356573 ER-359266	4-FR1 4-FR2 4-FR5 4-R26 4-R18 4-FR3 4-FR3 4-FR4 13-R1 4-R14
EC-334068 EC-334072 EC-334072 EC-334421 EC-334421 EC-338411 EC-359065 EC-363331 EC-364328 EC-364328	2-C28 2-C27 2-C28A 2-C43A 2-C44A 12-C1A 2-VC2 2-VC1 4-C1 4-C1	ED-361802 ED-361802 ED-361802 ED-361802 ED-361802 ED-361802 ED-361802 ED-361802 ED-361802 ED-361802	5-D4 5-D5 5-D6 5-D7 5-D8 5-D9 5-D10 5-D11 5-D12 5-D13	EI-749984 EJ-343365 EJ-343365 EJ-349657 EJ-352118 EJ-356658 EJ-359031 EJ-359264 EJ-361614	16-X1 7-J1 7-J2 9-J1 9-J2 15-18X 8-J1 4-TM2 4-TM1 4-J10	ER-359266 ER-359268 ER-359269 ER-359738 ER-362228 ER-365172 ES-349367 ES-349367	4R15 4R118 9R2 6R101 4R45 4R31 8R9 5SW21 5SW22 5SW23
EC-365146 ED-301911 ED-301911 ED-301911 ED-301911 ED-301911 ED-301911 ED-301911 ED-301911 ED-301911	2-VC2A 4-D12 4-D14 4-D18 4-D19 4-D102 5-D1 5-D3 6-D9 6-D12	ED-361802 ED-361802 ED-361916 ED-361916 ED-557447 ED-705414 ED-705414 ED-718039 EE-359265	5-D14 5-D15 5-D16 4-D6 4-D8 16-D4 16-D1 16-D2 16-D3 14-7	EJ-361615 EJ-362033 EJ-362280 EJ-364357 EJ-364358 EL-361656 EL-361656 EL-361656 EM-361644 EM-361646	4-J11 7-J3 6-1 14-J901 14-J901 14-IN901 14-IN902 14-IN903 10-LC1 11-LCD1	ES-349367 ES-359971 ES-359988 ES-359988 ES-359988 ES-359988 ES-359988 ES-359988 ES-359988	5SW24 9SW1 5SW1 5SW2 5SW3 5SW4 5SW5 5SW6 5SW7
ED-301911 ED-301911 ED-301911 ED-301911 ED-301911 ED-301911 ED-309069 ED-309069 ED-315759 ED-321180	6-D13 6-D19 6-D22 6-D24 7-D1 7-D2 6-D14 6-D102 4-D10 2-D3	EF-306950 EF-306951 EF-306951 EF-306954 EF-323080 EF-323080 EF-326613 EF-326613 EF-326639 EF-326639	4-F3 13-F6 13-F7 4-F3A 4-F4A 4-F5A 4-F1 4-F2 4-F4 4-F5	EO-330719 EO-336934 EO-336934 EO-337598 EO-337599 EO-337640 EO-337880 EO-338409 EO-345907	5-L1 9-VL1 9-VL2 2-T1 2-T6A 2-T6 3-T1 4-L1 13-FL1 4-L101	ES-359988 ES-359988 ES-359988 ES-359988 ES-359988 ES-359988 ES-359988 ES-359988 ES-359988	55W9 55W1 0 55W1 1 55W1 2 55W1 3 55W1 4 55W1 5 55W1 6 55W1 7 55W1 8

Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
ES-359988	5-SW19	EW-363659	14-6				
ES-359988	5-SW20	EW-363672	14-6C				
ES-359988 ES-359988	5-SW25 5-SW26	EW-363684 EW-363698	14-6D 14-6B				
ES-360115	4-SW2	EZ-361808	15-3				
ES-361613	4-SW1	SA-202118	14-1				
ES-361797	12-SW1	SC-718041	16-2				
ES-364594	14-SW901	SK-361409	15-5				
ET-200986	4-TR18	SK-361410	15-7				
ET-208012	6-TR101	SK-361411	15-4				
ET-307195	4-TR19	SK-361418C	15-8				
ET-308141	8-TR1	SK-361418D	15-8-B				
ET-308141	8-TR2	SK-361419A	15-13				
ET-308141	8-TR3	SK-361419B	15-13-B				
ET-308141	8-TR4	SK-361419C	15-14				
ET-308472 ET-328265	4-TR16 3-TR3	SK-361420C SK-361420D	15-10A 15-10A-B				
ET-336869	3-TR2	SK-361420E	15-104-5				
ET-337759	4-TR4	SK-361420F	15-10-B				
ET-337759	4-TR8	SK-361421	15-11				
57.007750	4.7044	01/ 004 404 5	45.40				
ET-337759	4-TR14	SK-361421B	15-12				
ET-337759 ET-338410	4-TR104 2-TR9	SK-361425A SK-361425B	15-9 15-9-B	1			
ET-338565	4-TR15	SP-361401B-A	14-4A	1			
ET-345625	4-TR7	SP-361401C-A	14-4B	1			
ET-345625	4-TR17	SP-361401D-A	14-4C	1			
ET-345626	4-TR3	SP-361401E-A	14-4				
ET-349449	2-TR11	SP-361408	15-6				
ET-349449 ET-349459	3-TR4 4-TR5	SP-361414C SP-361414D	15-17 15-17-B				
L1-343433	4-1113	31-3014145	13-17-5				
ET-349459	4-TR9	SZ-362273	14-5				
ET-349459	4-TR11	SZ-718044	16-3				
ET-349459	4-TR13	ZS-308846	14-8				
ET-351872	6-TR1	ZS-311745	14-9				
ET-351872	6-TR2	ZS-319460 ZS-331567	15-16X 15-15X				
ET-351872 ET-352726	6-TR3 6-TR8	ZS-346742	14-2				
ET-353899	2-TR4	ZW-698308	14-3				
ET-353899	2-TR5						
ET-353899	2-TR6						
ET-355556	2 TD1						
ET-356437	3-TR1 2-TR1						
ET-356437	2-TR10						
ET-359827	4-TR2						
ET-359827	4-TR6						
ET-359827	4-TR10						
ET-359827	4-TR12						
ET-360067	2-TR2						
ET-360067 ET-360067	2-TR3 2-TR7						
2. 00000,	2 1117						
ET-360067	2-TR8						
ET-360067	2-TR24						
ET-360067 ET-360067	4-TR20 4-TR21						
ET-360067	4-TR22						
ET-360067	4-TR23						
ET-360067	4-TR101						
ET-360067	4-TR102						
ET-360067 ET-360067	4-TR103 5-TR1						
E1-300067	9-1N1						
ET-360067	6-TR5						
ET-360067	6-TR7						
ET-360067	11-TR1						
ET-360067	11-TR2						
ET-360067 ET-360687	11-TR3 4-TR1						
ET-361640	6-TR4						
ET-361640	6-TR6						
ET-366413	2-TR22						
ET-718040	16-TR1						
EV.356576	2 VP1						
EV-356576 EV-359083	2-VR1 5-VR2						
EV-361635	5-VR1						
EV-361636	5-VR3						
EV-361636	5-VR4						
EV-361636	5-VR5						
EV-361636	5-VR6						
EV-361636	5-VR7						
	2-VR2	1		1			
EV-361673 EW-363647	14-6A			1			

ABBREVIATIONS FOR SERVICE MANUAL

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
AFC	Auto Frequency Control	МЕМО	MEMOry
AGC	Auto Gain Control	MI-COM	MIcro-COMputer
ALC	Auto Level Control	MIN	MINimum
AM	Amplitude Modulation	MIX	MIXing
AMP	AMPlifier	MPX	MultiPleX
ANT	ANTenna	MW	Medium Wave (frequency)
BATT	BATTery	NC	No Connection
BLK	BLocK	NFB	Negative Feed Back
BUFF	BUFFer	OSC	OSCillator
COMP	COMParator	PCB	Printed Circuit Board
DET	DETect (DETector)	PLL	Phase Locked Board
FLD		QD	Quadrature Detector
FM	Frequency Modulation	Rch	Right channel
FREQ	FREQuency	REF	REFerence
GND	GrouND	REG	REGulator
Н	High	RF	Radio Frequency
HPF	High Pass Filter	SEG	SEGment
IF	Intermediate Frequency	SELE	SELEctor
IHF	Institute of High Fidelity	SENS	SENSitivity
IND	INDicator	SIG	SIGnal
I/O	In/Out	S/N	Signal to Noise Ratio
JW	Jumper Wire	SSG	Standard Signal Generator
L	Low	STD	STanDard
LCD	Liquid Crystal Display	SW	SWitch: Short Wave (frequency)
Lch	Left channel	THD	Total Harmonic Distortion
LED	Light Emitting Diode	TP	Test Point
LPF	Low Pass Filter	VCO	Voltage Controlled Oscillator
LW	Long Wave (Frequency)	VR	Variable Resistor
		X'TAL	Crystal

AKAI ELECTRIC CO., LTD.

12-14, 2-Chome, Higashi-Kojiya, Ohta-Ku, Tokyo, Japan TEL Tokyo (742) 5111 CABLE HIFIAKAI TOKYO TELEX: J26261 Printed No. 861104-G1-3700 Printed Date: November 29, 1986 350 Printed in Japan

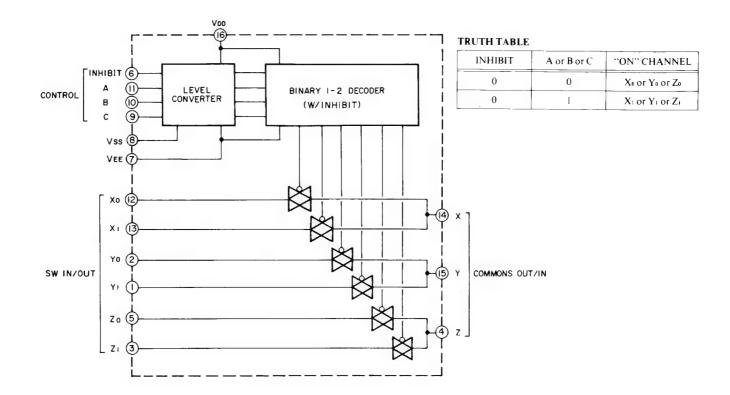
AKAI

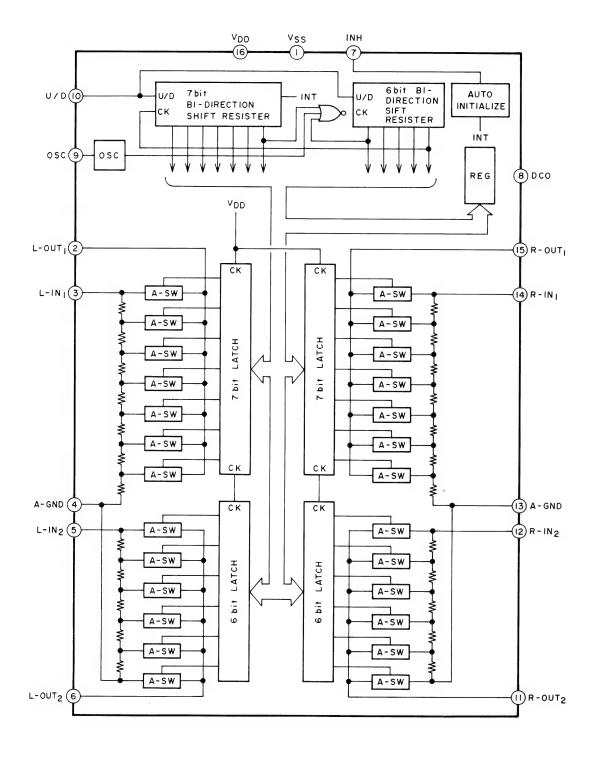
MODEL AV-M313

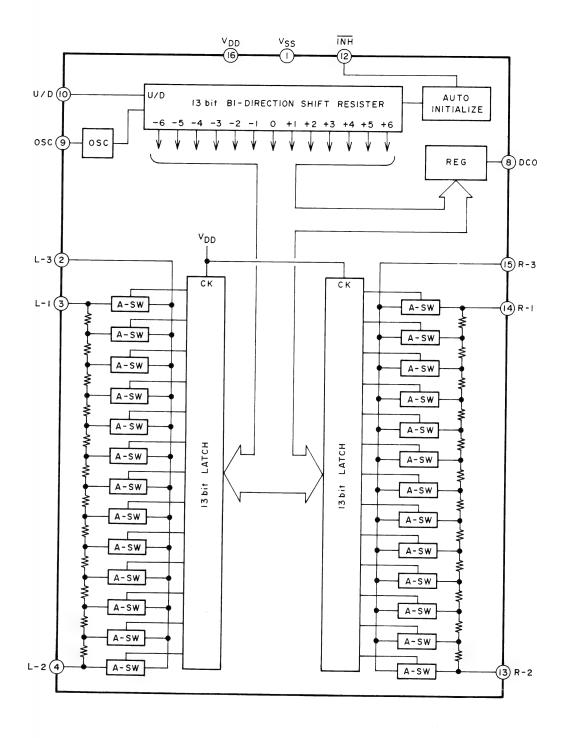
SCHEMATIC DIAGRAM AND PC BOARDS

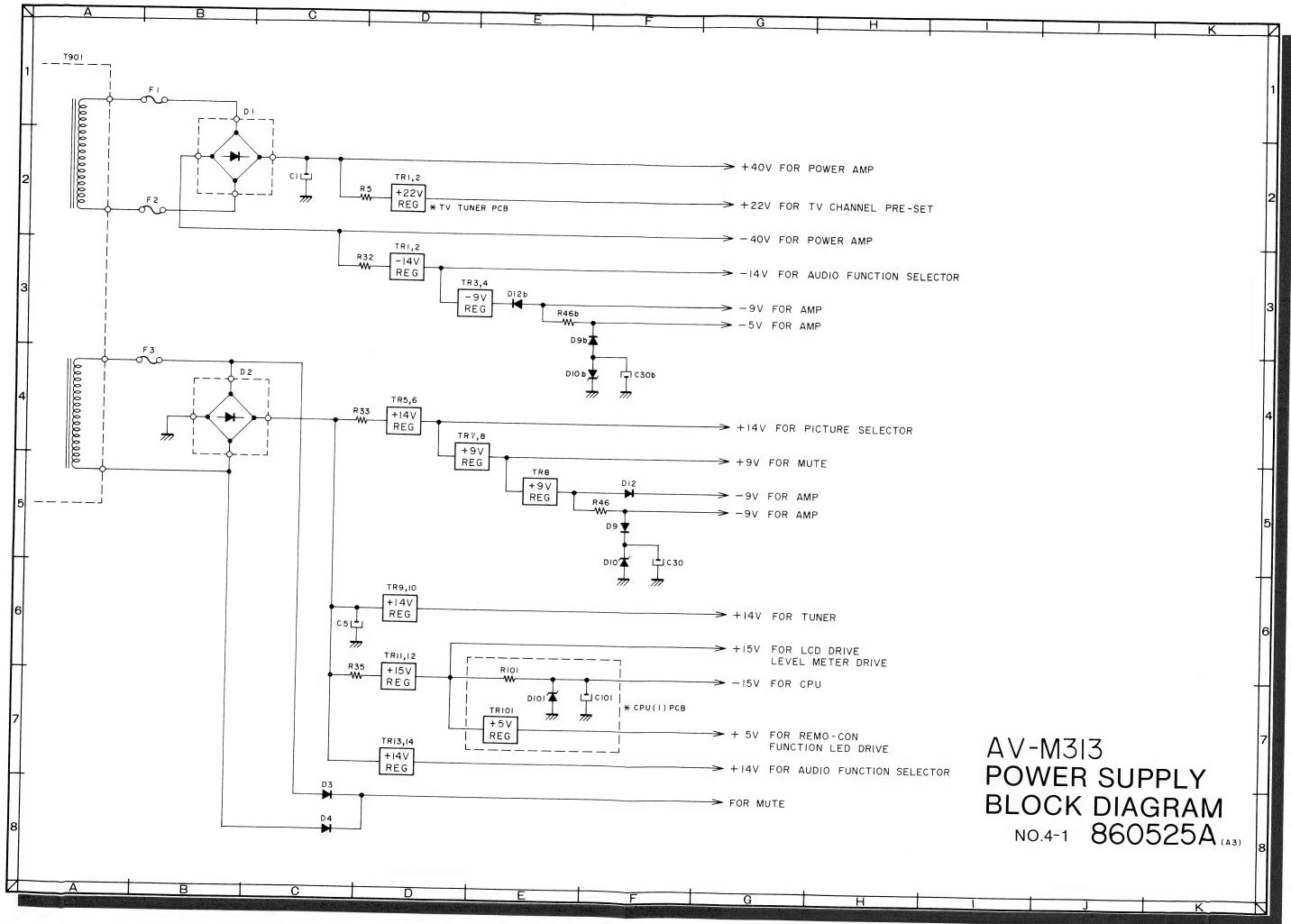
TABLE OF CONTENTS

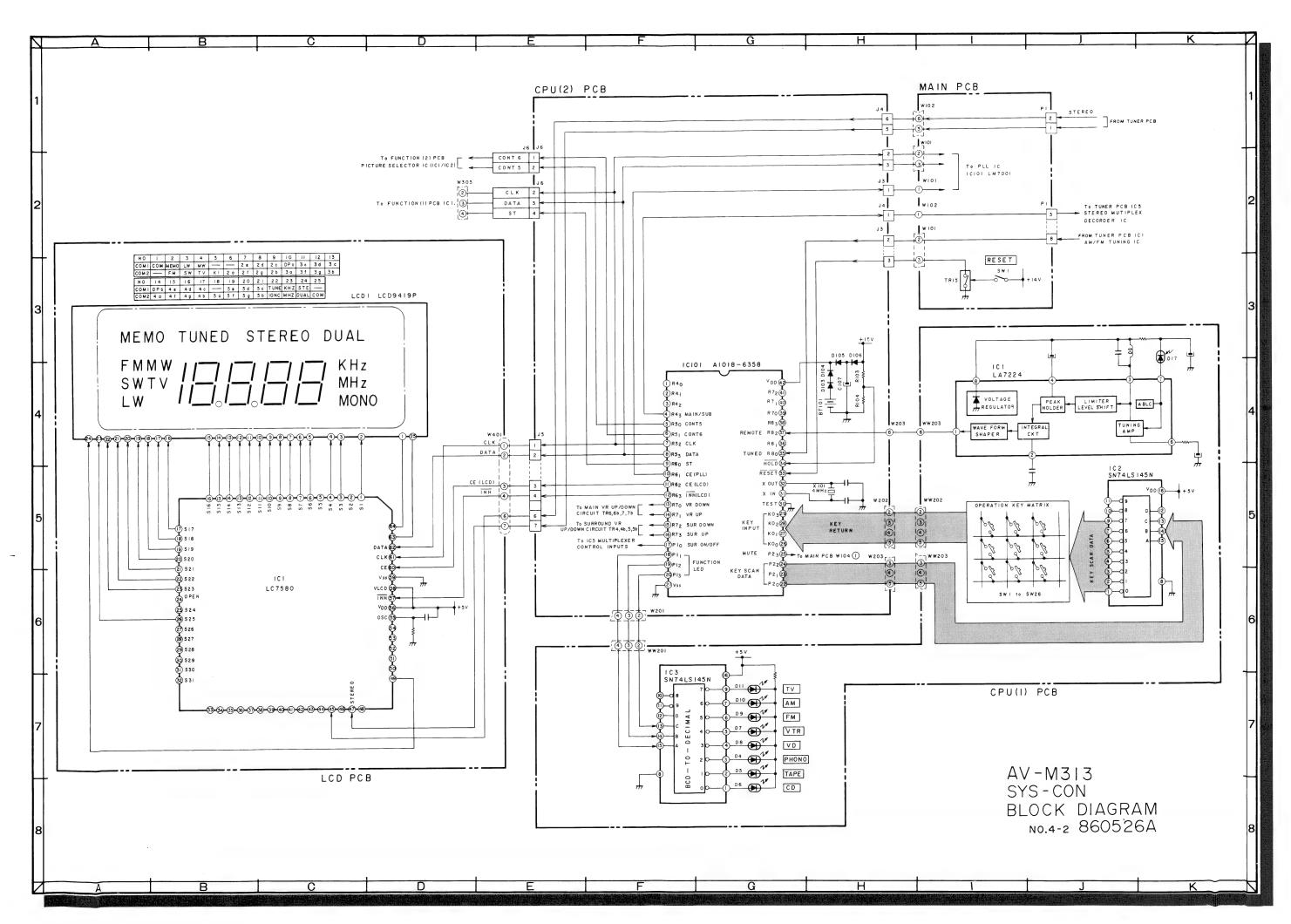
1.	ICs	2
2.	POWER SUPPLY BLOCK DIAGRAM	4
3.	SYS-CON BLOCK DIAGRAM	5
4.	AMP BLOCK DIAGRAM	6
5.	TUNER BLOCK DIAGRAM	7
6.	CONNECTION DIAGRAM	8
7.	FUSE, LCD, HEADPHONE PC BOARD	9
8.	MAIN SCHEMATIC DIAGRAM	10
9.	MAIN PC BOARD	11
10.	FUNCTION (1)/(2) SCHEMATIC DIAGRAM	12
11.	FUNCTION (1)/(2) PCB	13
	CPU (1) SCHEMATIC DIAGRAM	
13.	CPU (1) PC BOARD	15
14.	CPU (2) PC BOARD	16
15.	CPU (2) SCHEMATIC DIAGRAM	17
	TUNER SCHEMATIC DIAGRAM	
17.	TUNER PC BOARD	19
	SURROUND SCHEMATIC DIAGRAM	
19.	SURROUND PC BOARD	21
20	FRONT END SCHEMATIC DIAGRAM	22

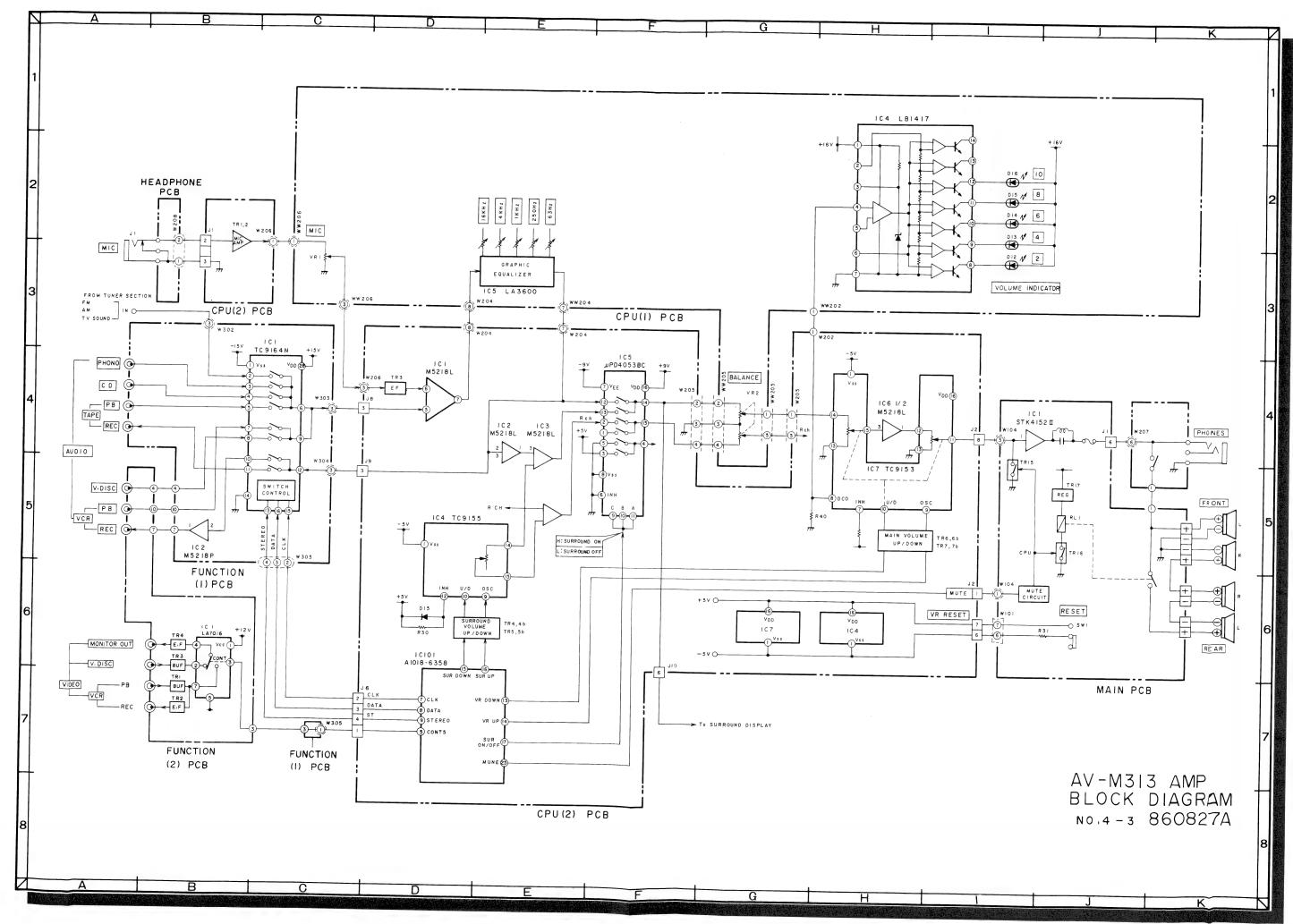


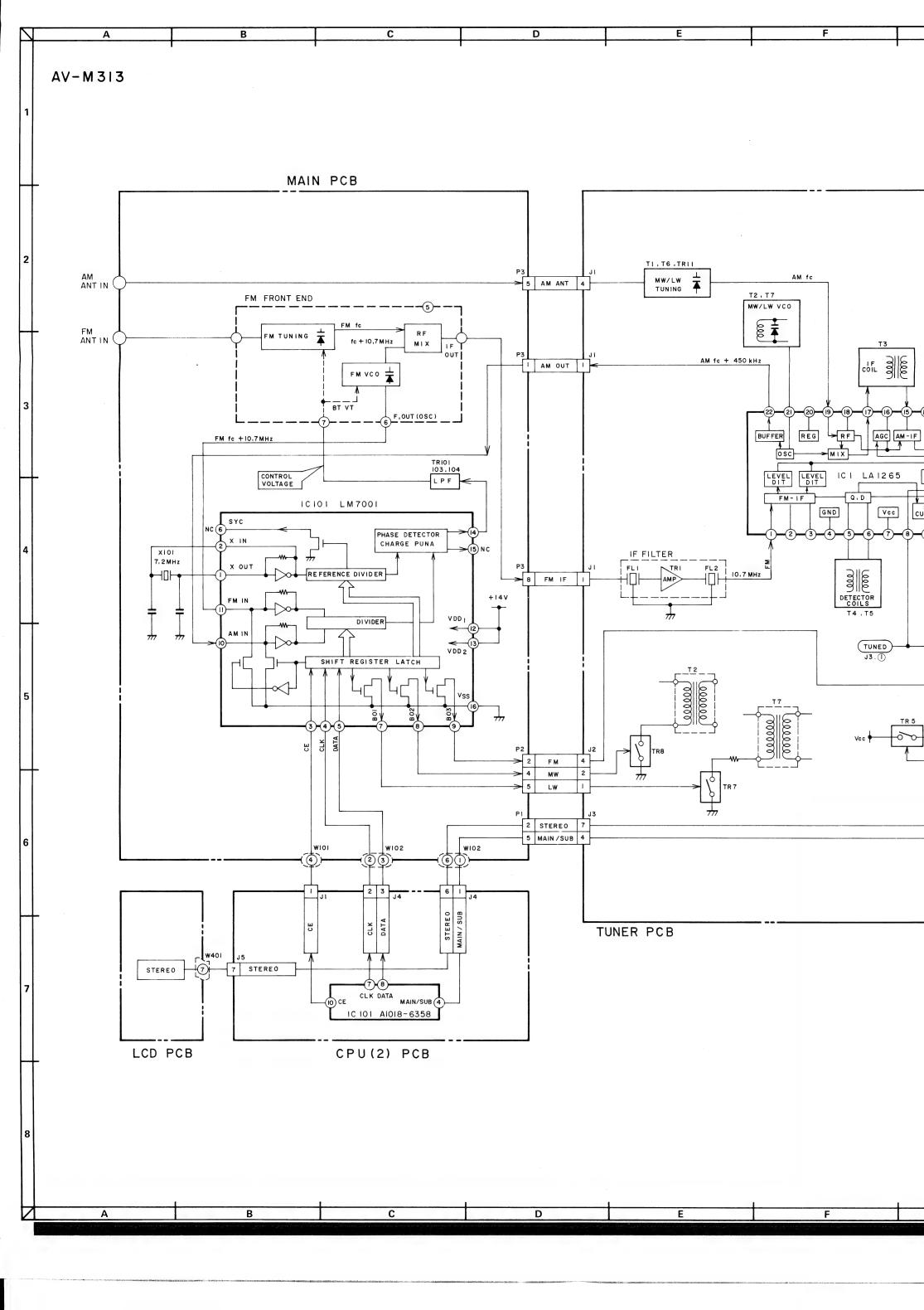


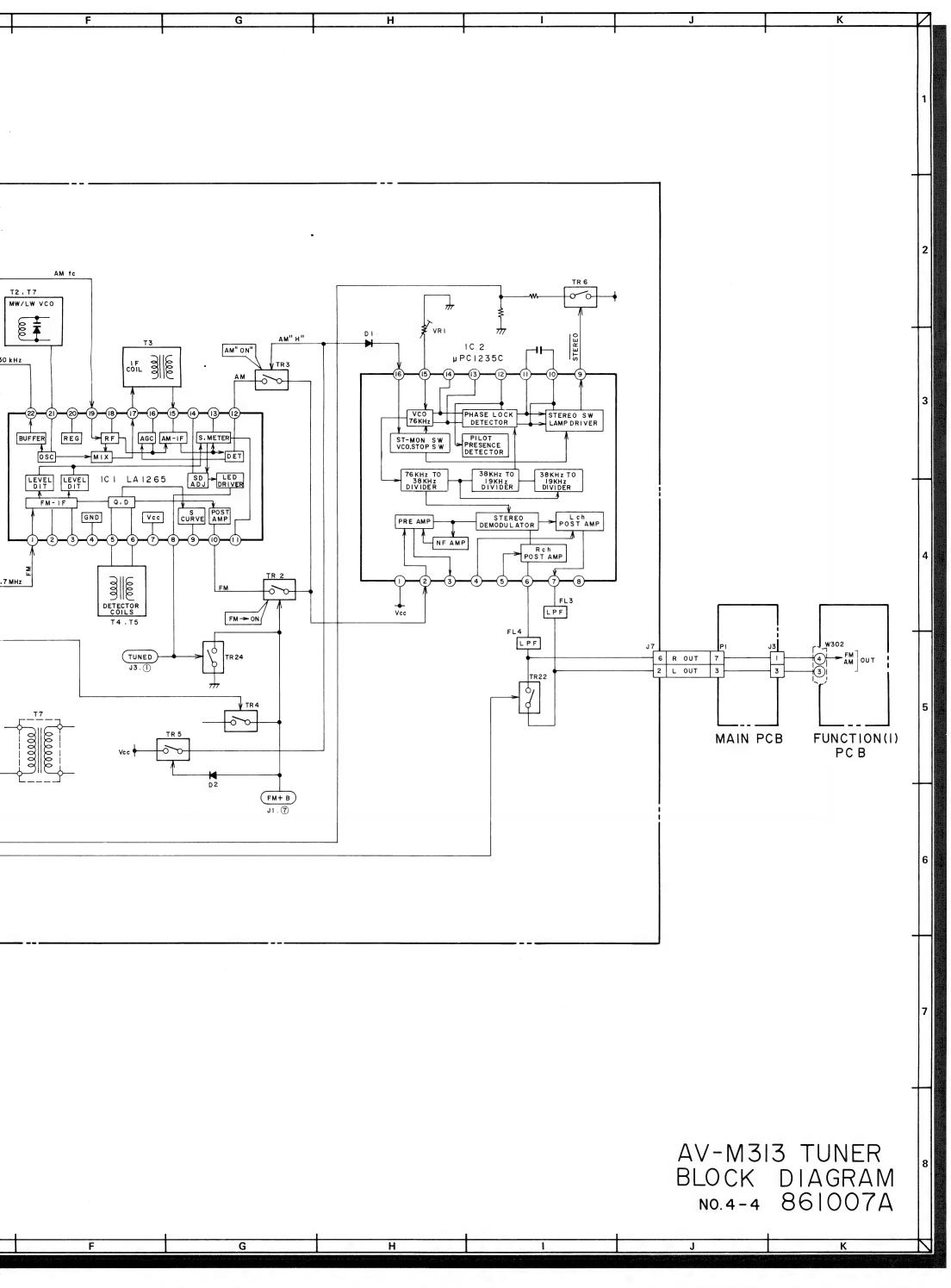


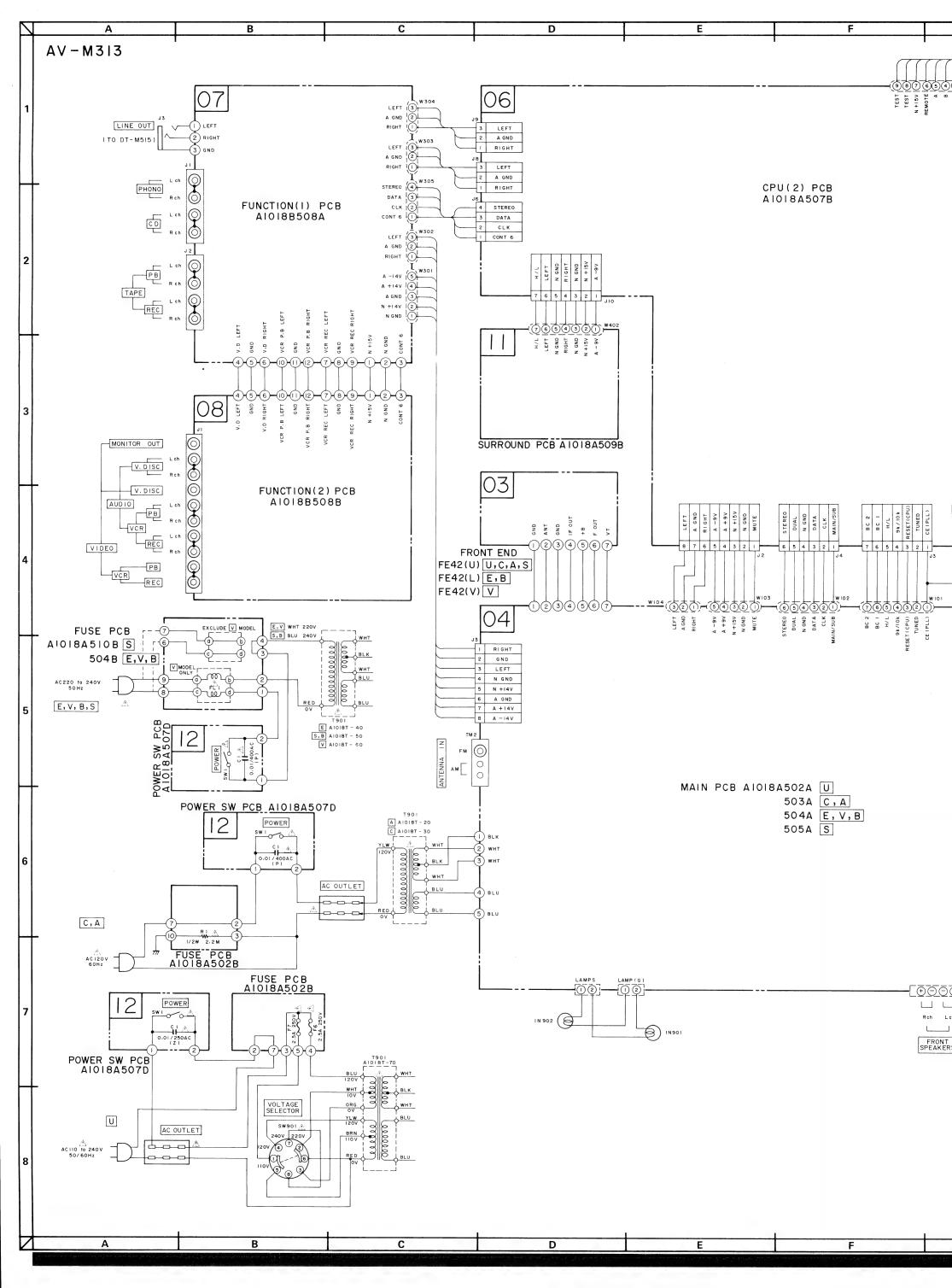


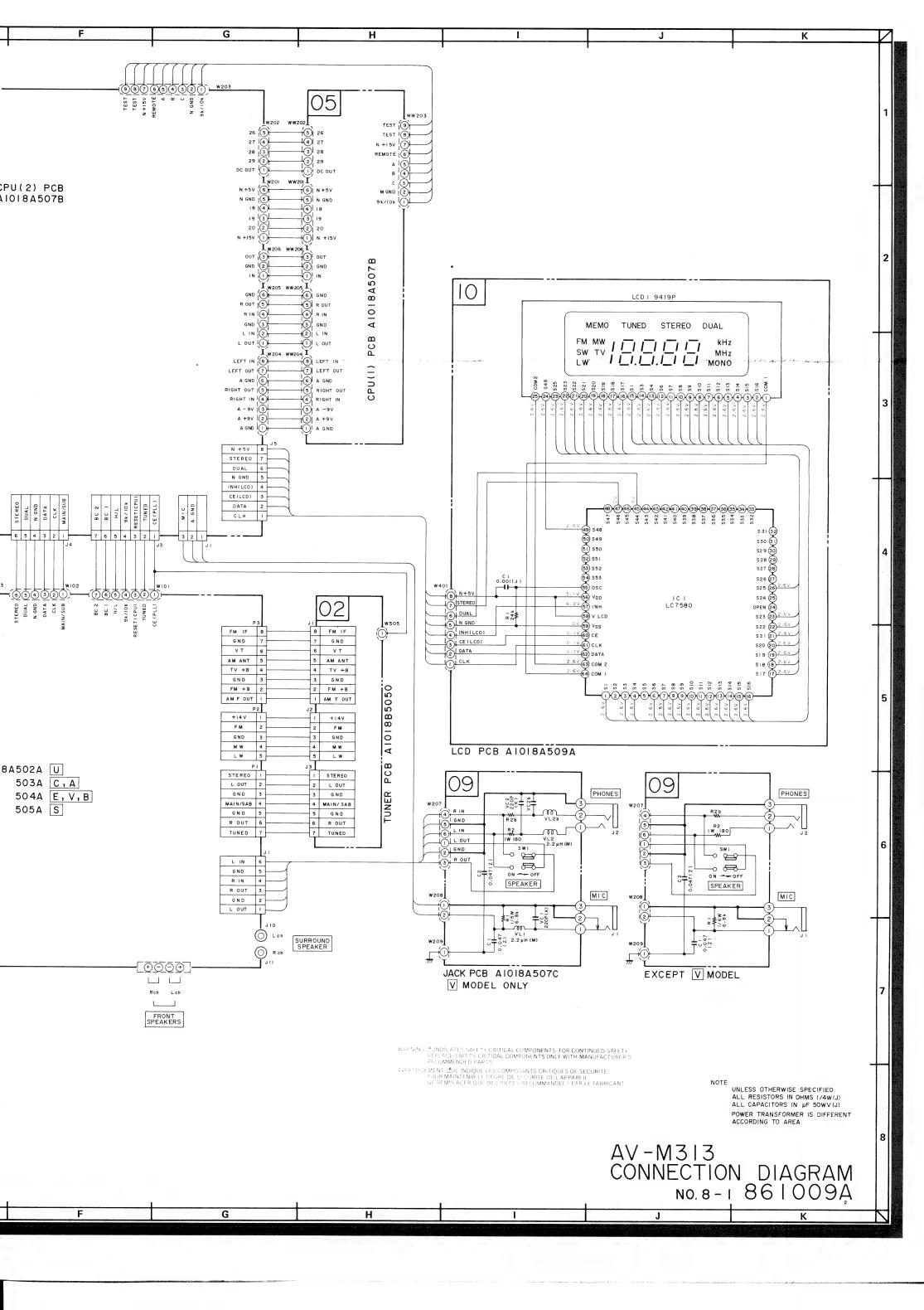


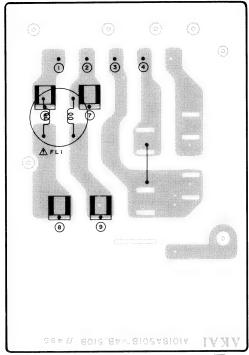




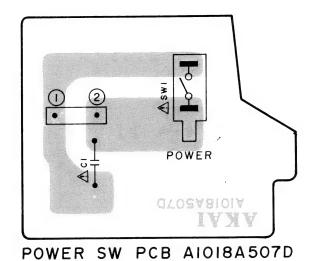


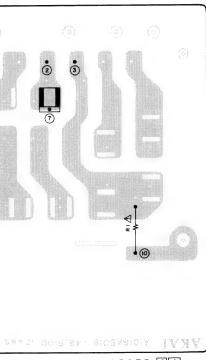




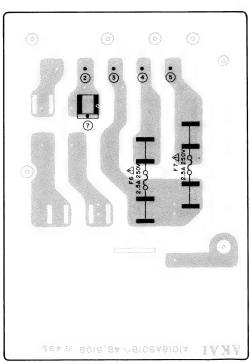


FUSE PCB AIOI8A504B EBV 510B S

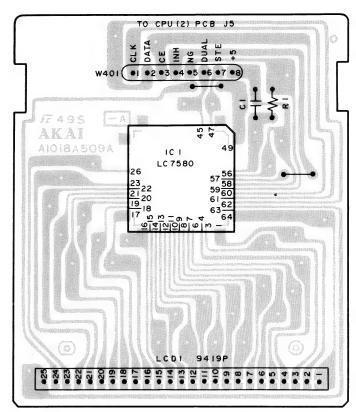




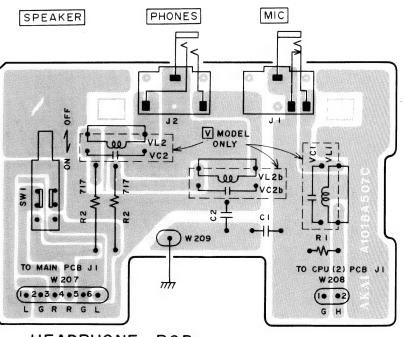
FUSE PCB AIOI8A503B CA



FUSE PCB AIO18B502B U



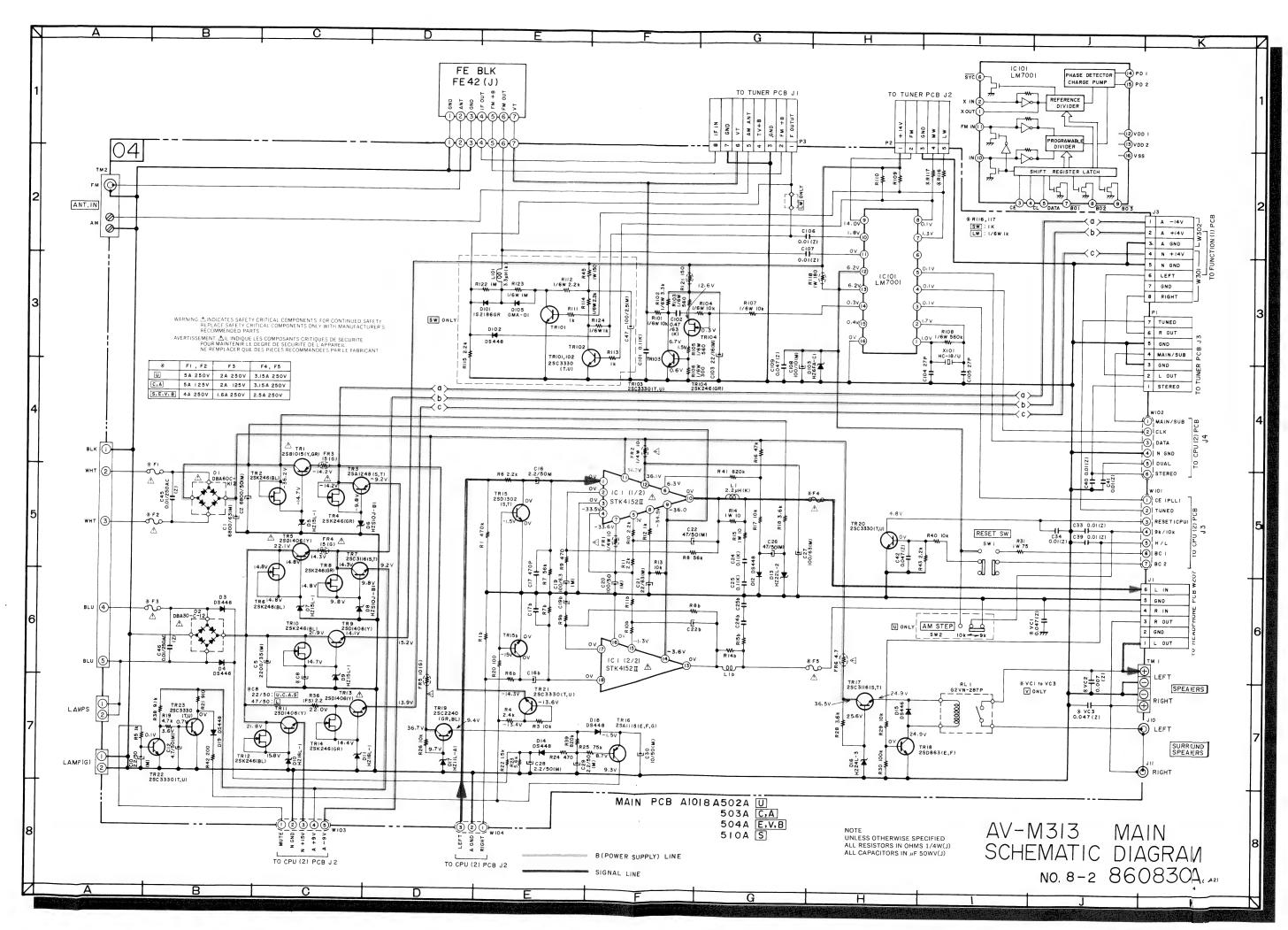
LCD PCB AIOI8A509A(-A)

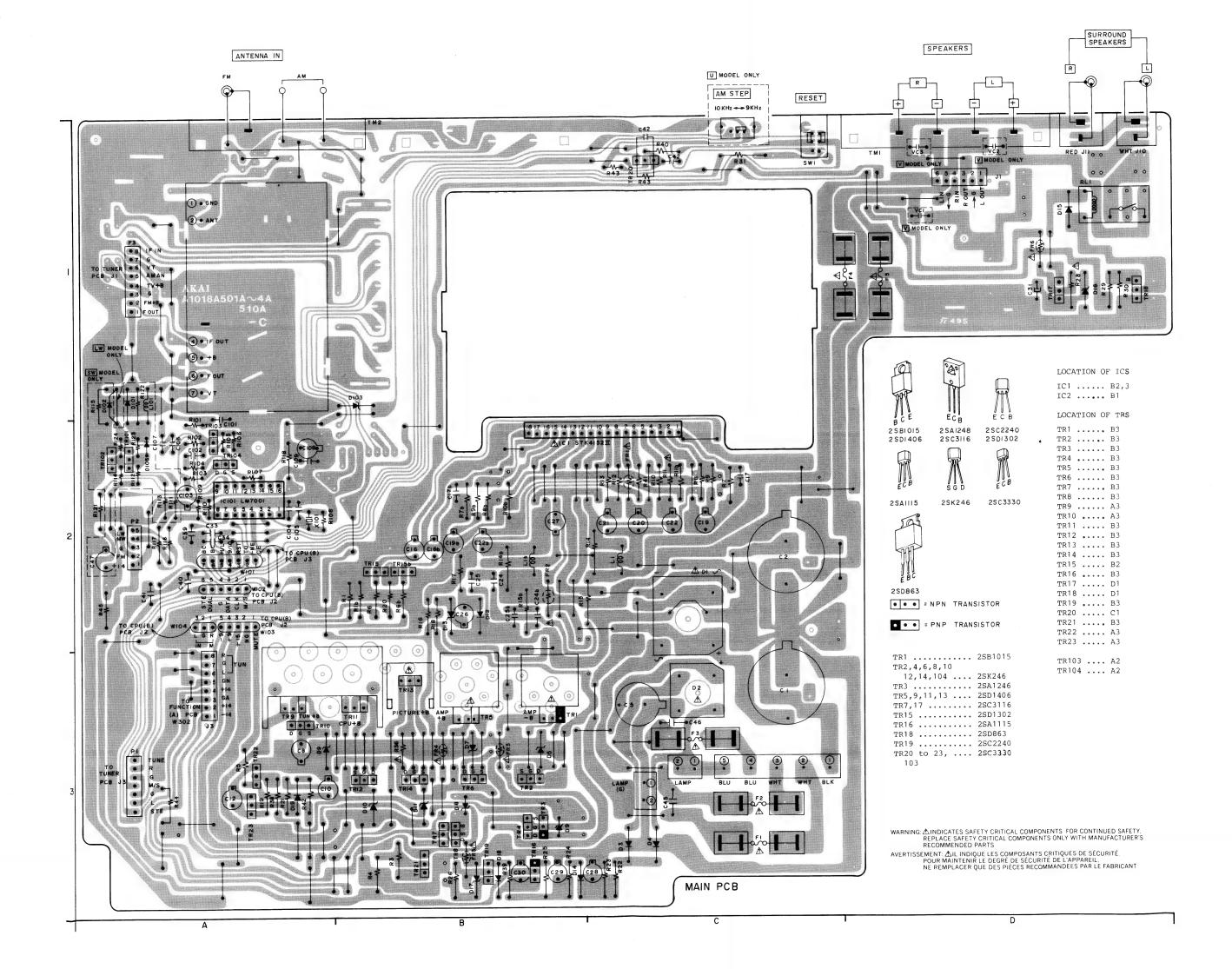


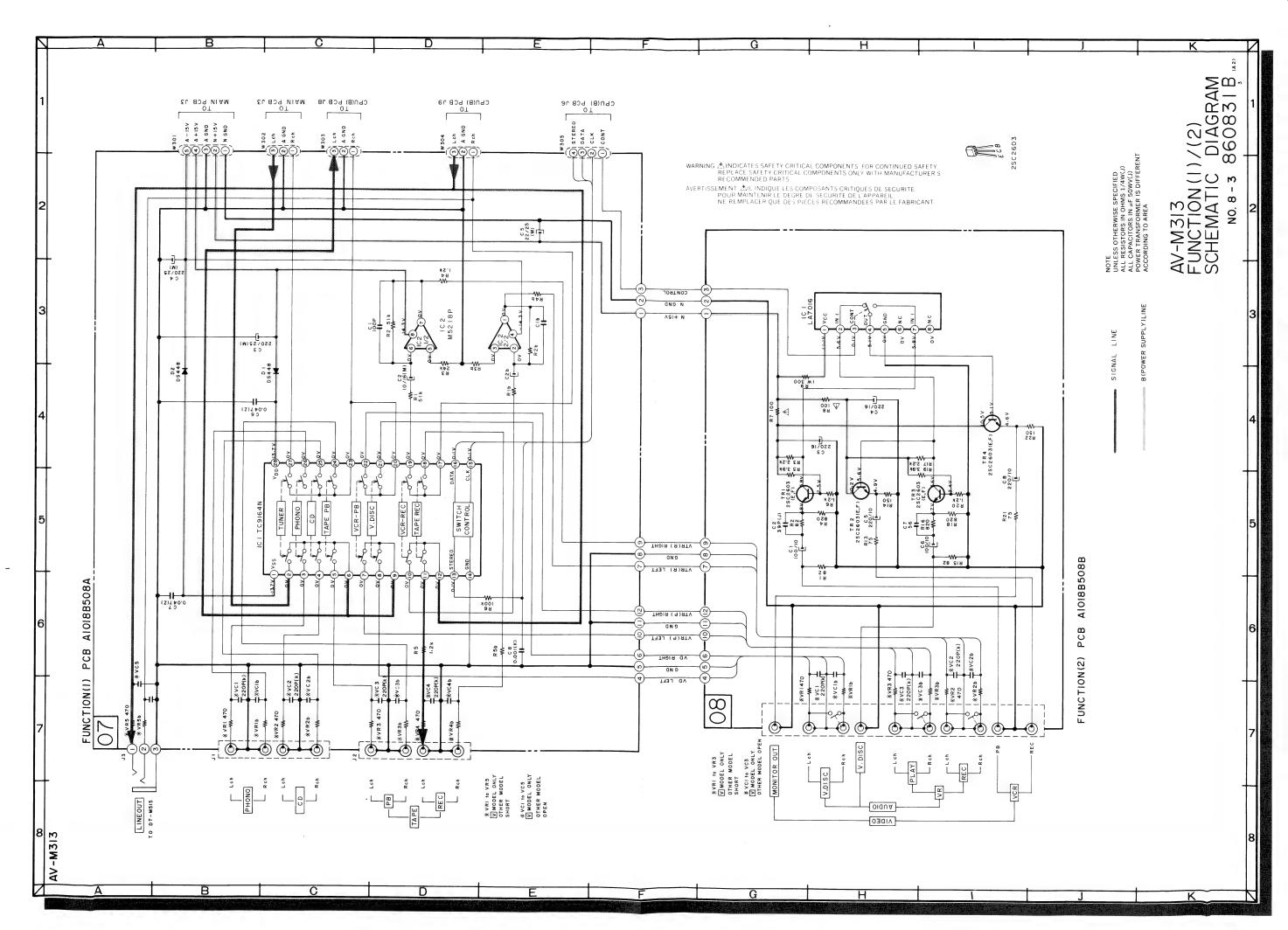
HEADPHONE PCB

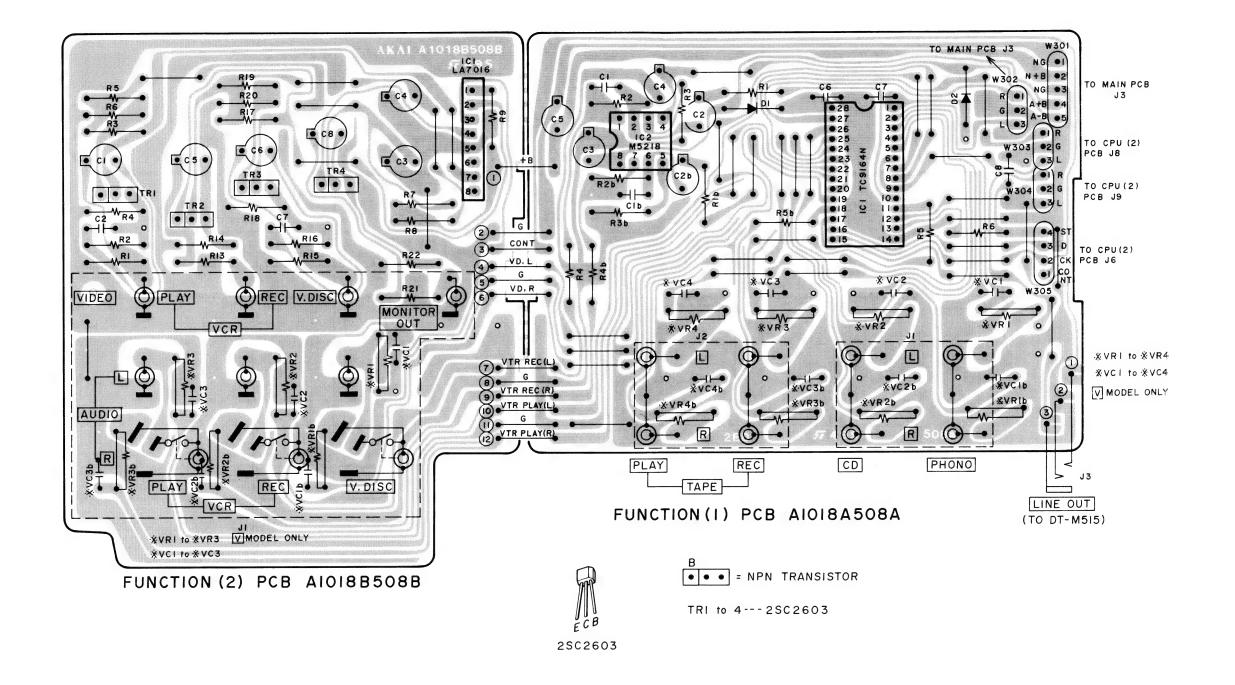
WARNING. AINDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

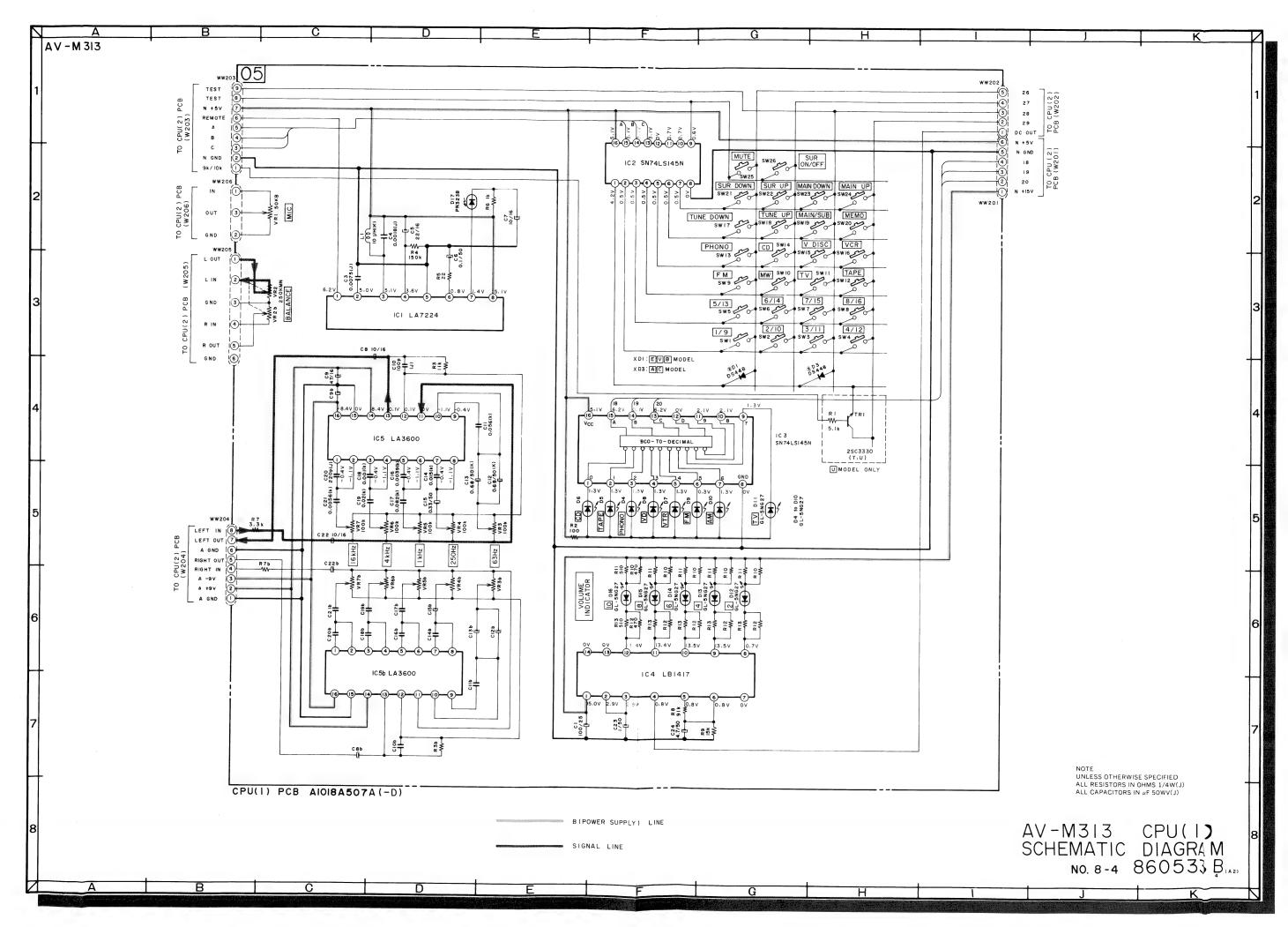
AVERTISSEMENT: <u>A</u>IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

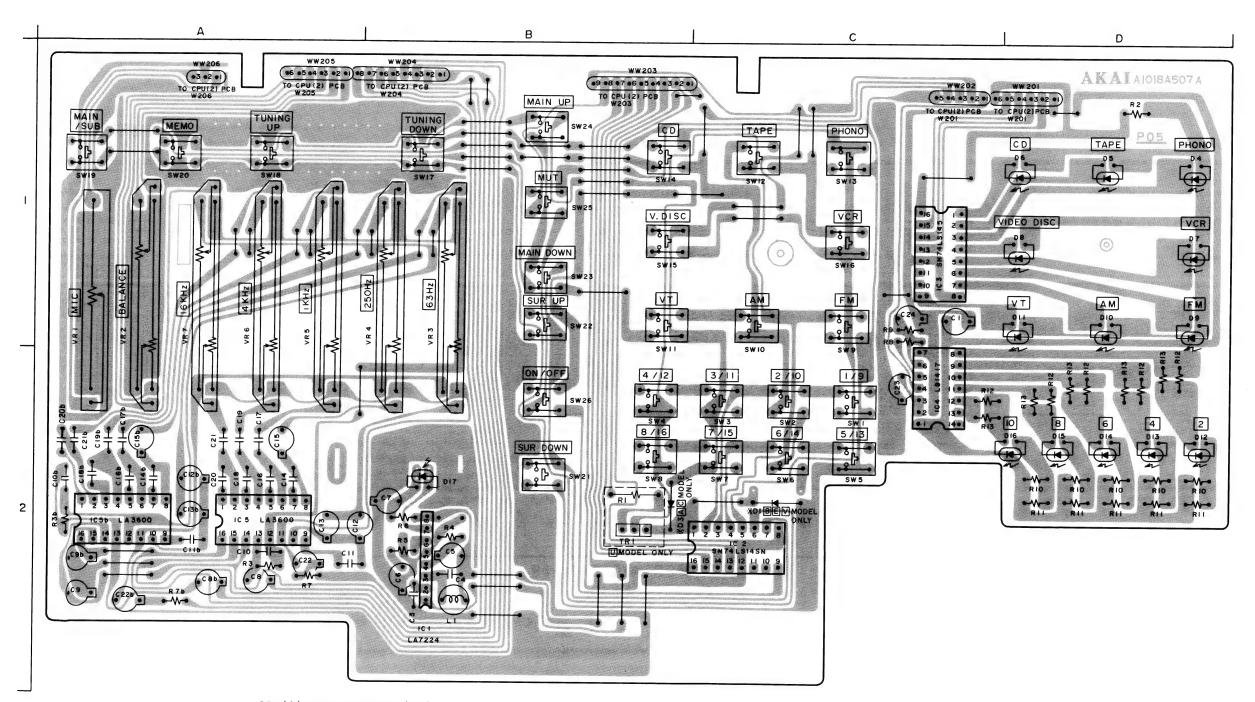












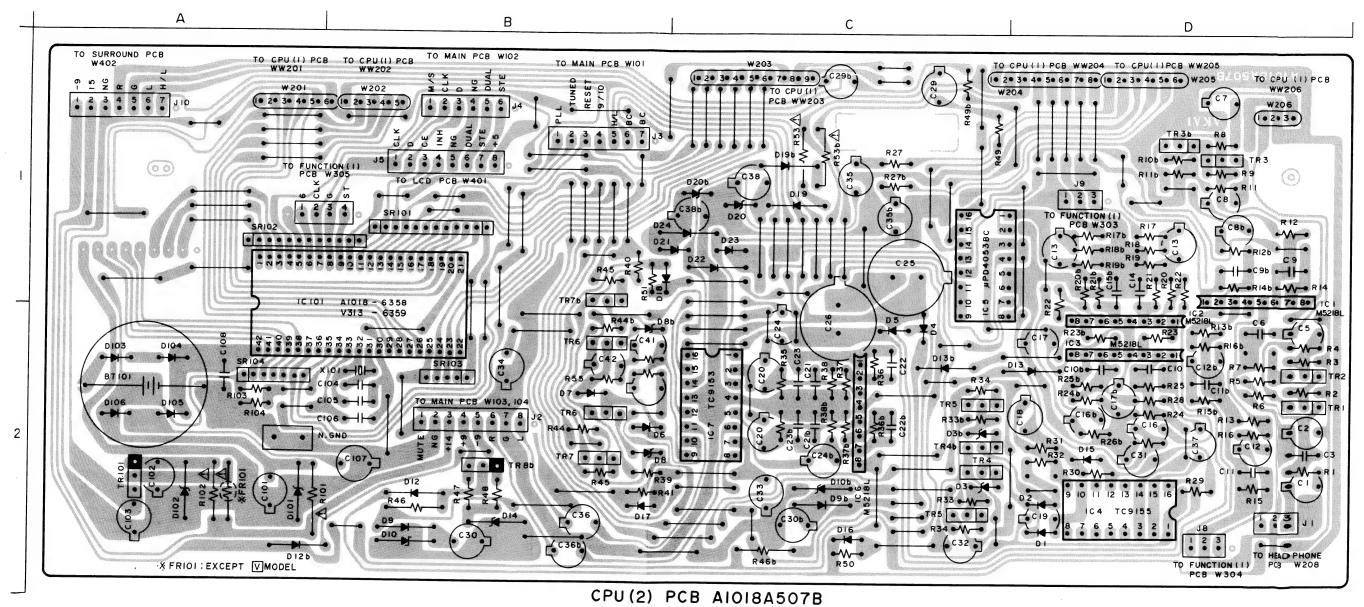
CPU(1) PCB A1018A507A(-D)

LOCATION OF ICs

1C 2----C2

IC 4----C2

IC 5---- A2



LOCATION OF TRS IC 1 A 2 IC 2 A 1 IC 3 A 1 IC 4 A 1 IC 5 B 2 IC 6 B 1	LOCATION OF TRS TR I A I TR 2 A I TR 3 A 2 TR 4 B I TR 5 B I TR 6 C I	TRI,2,32SC3383 TR 4,6RNI2O5 TR 5,72SC3330 TR 82SAI392 TRIOI2SD57I	B B NPN TRANSISTOR B NPN TRANSISTOR	E C B	E C B	E C B
C 7 B C O	TR 7 C TR 8 C TR 0 A 2			2SA1392 2SC3383	2SC3330 RNI2O5	2SD 571

WARNING: ▲INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ΔIL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

